PHOENIX

Lighting Glassware

THE PHOENIX GLASS COMPANY
MONACA, PA. NEW YORK CHICAGO

CATALOG
55

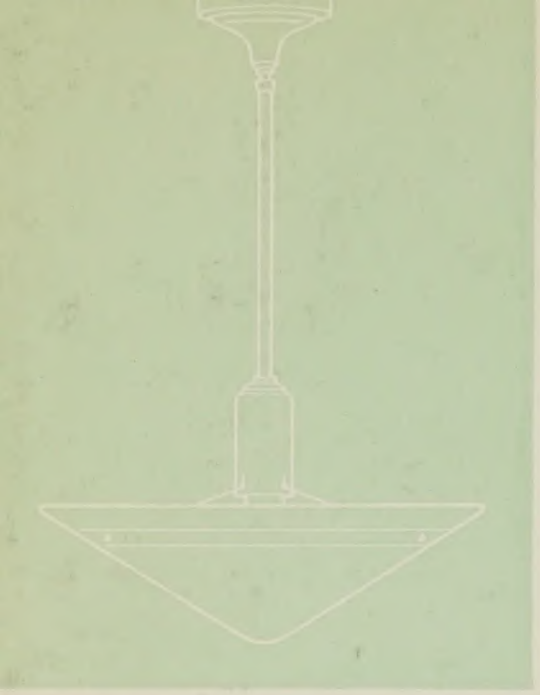
PHOENIX

QUALITY

Lighting Glassware

THE PHOENIX GLASS COMPANY, MONACA, PA.

NEW YORK—*Chrysler Bldg.* . . . . **PHILADELPHIA**—*Drexel Bldg.* . . . . **CHICAGO**—*Garland Bldg.*



THE *Sterling*

FOR CORRECT SEMI-INDIRECT LIGHTING

THE STERLING typifies the finest in semi-indirect lighting equipment. The conical bowl has beauty and modern simplicity. Dense white Sterling glass provides a flood of uniform subdued light, free from objectionable glare, at high foot candle intensities.

This type of correct illumination protects the eyesight and health of the workers, in addition to promoting accuracy and effectiveness. Nervous tension is not in evidence and buyers, patrons or employees appreciate the ease of seeing.

In every community, those establishments that are keeping ahead of the others, abreast of the times, and able to meet their ever-increasing competition, are benefited through the use of modern lighting equipment.

Beautiful slender stem fixtures in chrome or satin aluminum complete the mounting of THE STERLING. Suitable fixtures can be obtained from fixture manufacturers or jobbers. We do not sell the fixture.

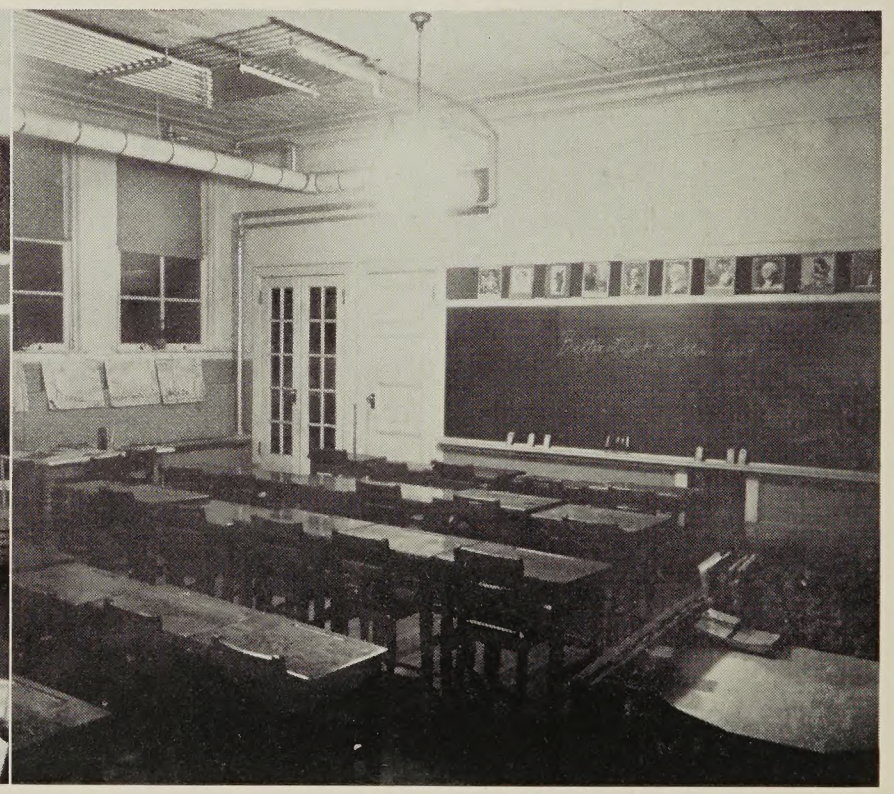
No. 6653 manufactured under license from George Ainsworth, U.S. Patent 1,957,192.

THE *Sterling* IMPROVES SCHOOL LIGHTING

AFTER

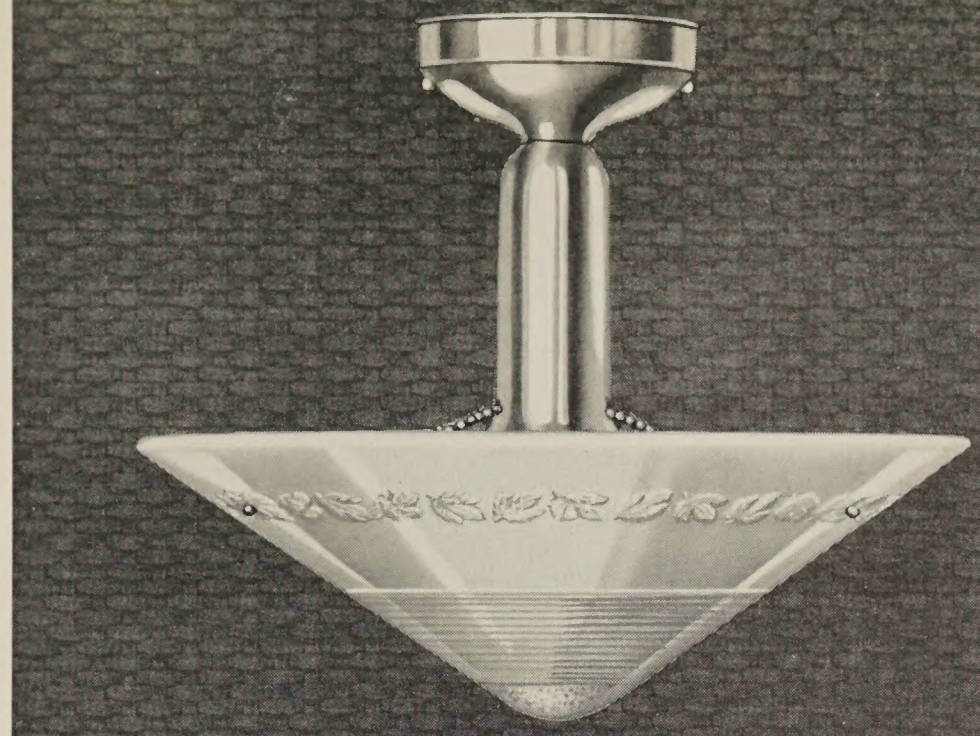
BETTER LIGHT — BETTER SIGHT

BEFORE

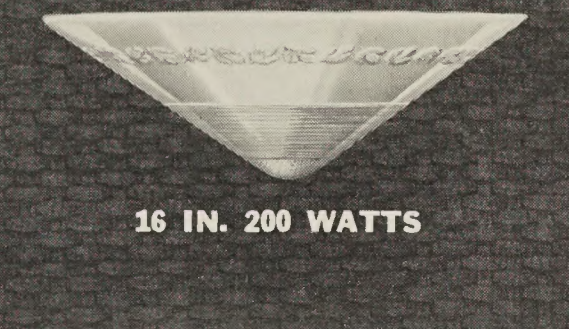


BAD LIGHT — BAD SIGHT

In studying, countless visual impressions are made on the retina and transmitted to the brain so that the *time* required to see clearly is a factor. The lesson is learned more quickly and with less expenditure of physical and nervous energy if visual images are perceived rapidly and clearly. Seeing must be made easy, and THE STERLING gives the effect of Indoor Daylight with a flood of uniform light for easy and quick seeing.

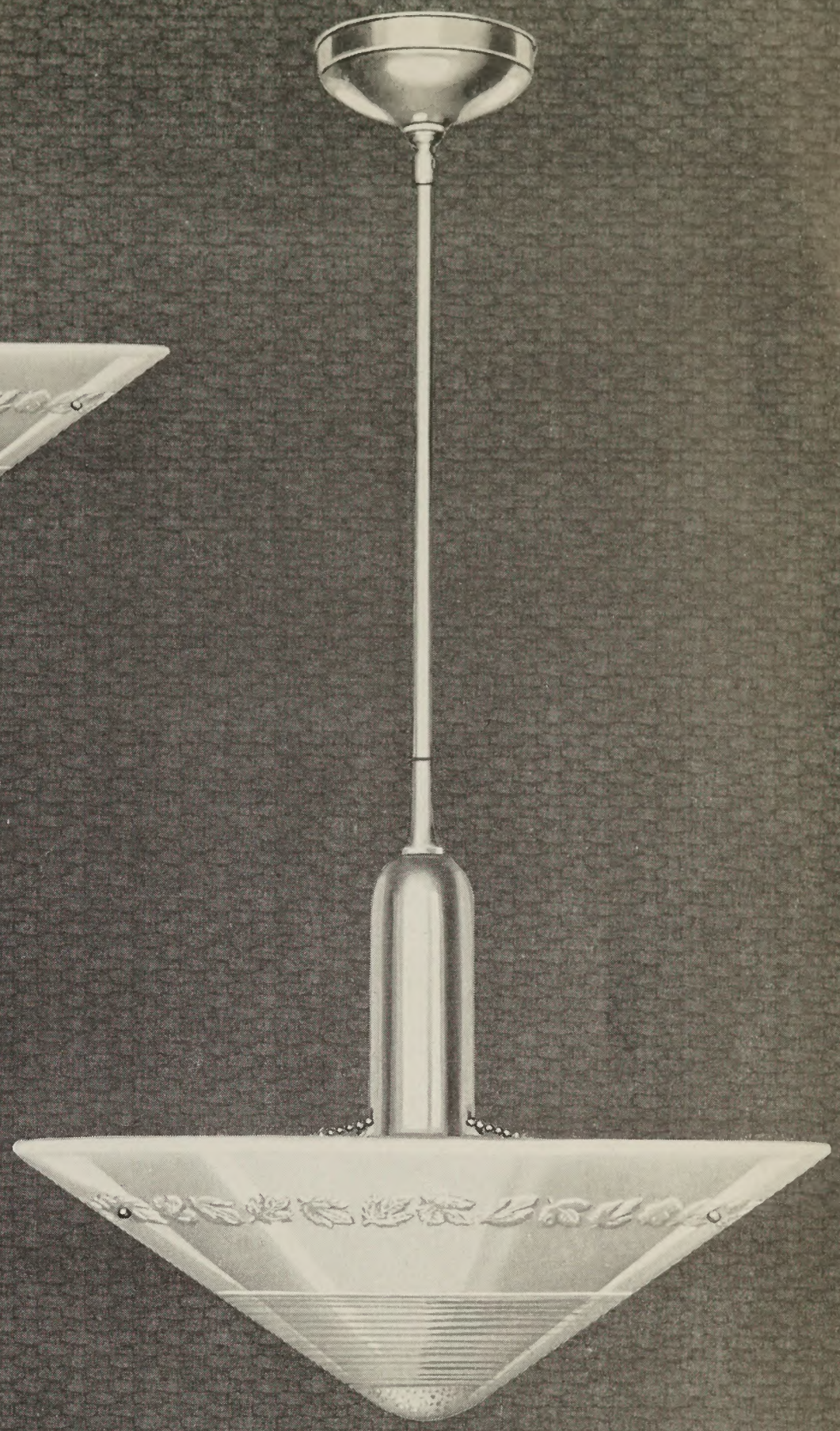


16 IN. 200 WATTS



18 IN. 300-500 WATTS

22 IN. 750-1000 WATTS



NUMBER	DIAMETER	DEPTH
6653	16″	5 3/8″
6653	18″	6″
6653	22″	7 3/8″

PHOENIX

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

DATA AND SPECIFICATIONS FOR

THE *Sterling* SEMI-INDIRECT BOWL NO. 6653

DENSE WHITE GLASS used in THE STERLING is free from contrasting colors and is an ideal light source for commercial installations. A tan color introduced into a reflecting medium or used on a painted ceiling absorbs part of the available light. Hence the pure white inner reflecting surface of THE STERLING is one of its most important features.

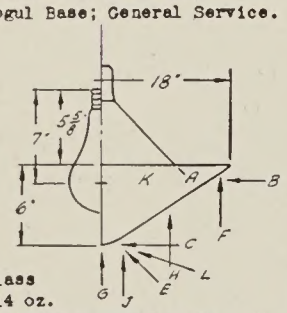
We also recommend decoration 991 on STERLING glass. Here the inner surface remains white, with its high reflection factor, while the outer surface is toned a soft uniform ivory color. This provides an ideal light source, and the color will harmonize with any interior.

ELECTRICAL TESTING LABORATORIES
NEW YORK, N. Y.

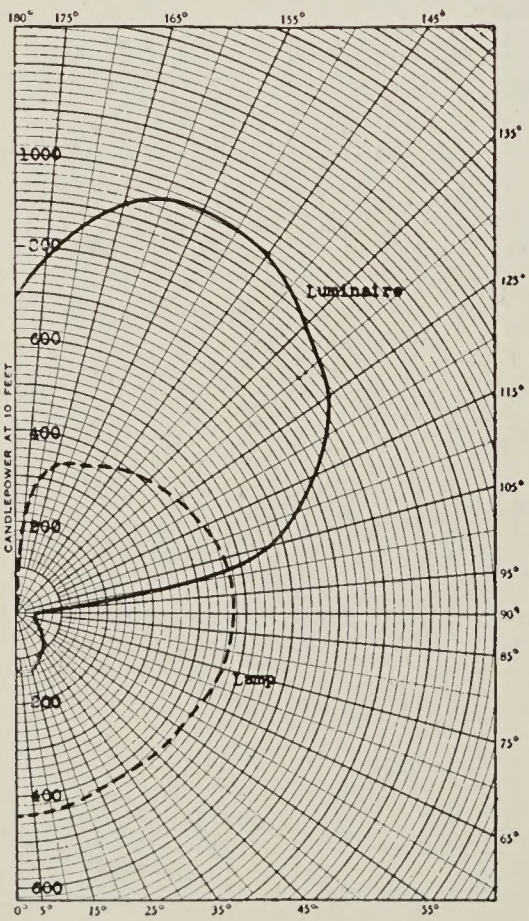
REPORT NO. 137875 ORDER NO. 61588-S PLATE NO. 28680

CANDLEPOWER DISTRIBUTION
NO. 6653 SEMI-INDIRECT BOWL WITH D991 DECORATION*

Lamp - 300 Watts; 115 Volts; 5490 Lumens;
PS35 Inside Frosted Gas-Filled Bulb;
C-7A Filament; Mogul Base; General Service.



White Diffusing Glass
Weight - 10 lbs. 14 oz.



LUMINAIRE DISTRIBUTION DATA

Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° (IN.)	693		90° (HOR.)	48	
175°	783	74	85°	43	47
165°	930	262	75°	47	50
155°	973	449	65°	59.5	59
145°	959	601	55°	74	66
135°	891	690	45°	92	71
125°	832	744	35°	108	68
115°	716	711	25°	119	55
105°	572	584	15°	129	37
95°	113	157	5°	136	13
			0° (NADIR)	134	

LIGHT FLUX VALUES

ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT
	LAMP	LUMINAIRE		
0°-60°	1350	310	5.5	86
0°-90°	2801	466	8	
90°-180°	2688	4272	78	
0°-180°	5489	4738	86	

LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP PER SQ. IN	0.13	0.23	1.0		1.1	0.22	1.1	0.6		1.2	0.23	1.0	

*E.T.L. Identification No.6162.

TESTED BY C.A.S. PLOTTED BY M.W. COMPUTED BY M.W. CHECKED BY M.W. ISSUED May 1, 1936.

APPROVED BY William F. Little
ENGINEER IN CHARGE OF PHOTOMETRY

C. E. Horn
IN CHARGE OF TEST

2304

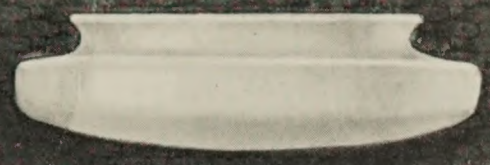
PHOTOMETRIC DATA

The photometric test made by The Electrical Testing Laboratories shows a total light output of 86%. Of this amount 90% is directed upward to the ceiling and only 10% filters through THE STERLING. The ceiling becomes a secondary light source to provide a flood of shadowless and glareless lighting.

ZONE	Per Cent Total Lumens Bare Lamp	Total Per Cent Light Output
0-60°	5.5	86%
0-90° (Downward)	8.0	
90-180° (Upward)	78.0	
0-180°	86	

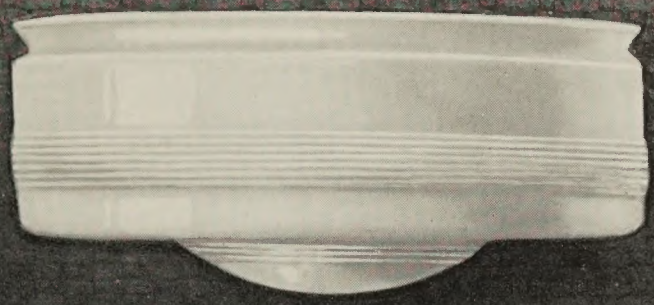
WE RECOMMEND

Ceiling finish Mat White. Wall Finish light Tan or Green.



2852

2896



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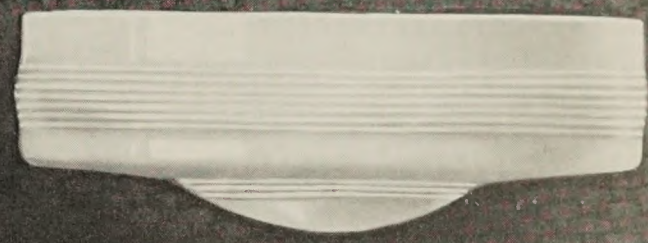

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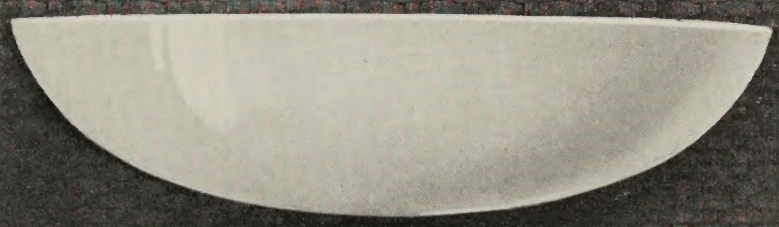
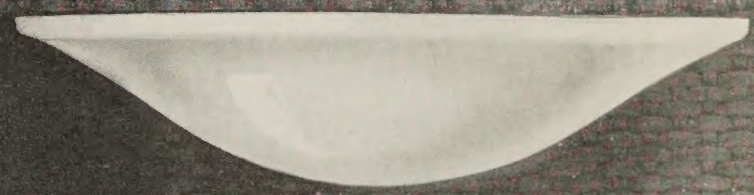


52141



5790

61443

61458

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

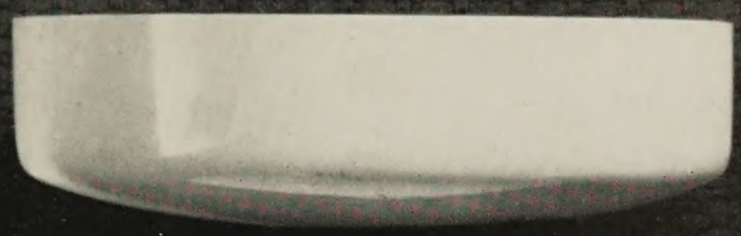
Phoenix Special Bowls

OF UNUSUAL MERIT

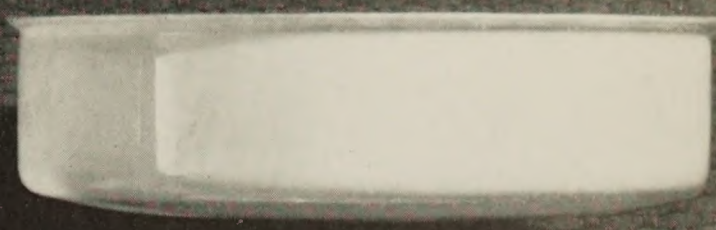
IN RADIANT OR VELVOTAN GLASS

CATALOG NUMBER	MAXIMUM DIAMETER	MAXIMUM DEPTH	FITTER DIAMETER
2896	6 3/8″	3 7/8″	6″
2896	8 3/16″	4 1/4″	8″
2896	10 5/16″	4 1/2″	10″
2896	12 1/4″	5 1/16″	12″
2917	6 3/8″	2 7/8″	6″
2917	8 3/16″	3 1/2″	8″
2917	10 3/16″	3 5/8″	10″
2917	12 1/4″	4 1/4″	12″
52141	14 3/8″	3 3/4″	
52141	15 1/4″	3 13/16″	
5790	10″	1 5/8″	
5790	12″	2 3/8″	
5790	14″	3 1/8″	
5790	16″	3 9/16″	
2852	9″	2 3/4″	6 7/8″
***61443**	10 3/8″	4 9/16″	3 Side Holes
***61458**	9 3/8″	3 1/2″	1/2″ B/H

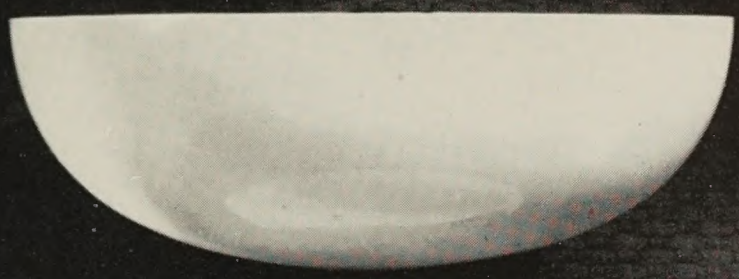
*See price list for finishes.



539



5891



52

53

5154

598

PHOENIX

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Standard Bowls

RADIANT OR CRYSTAL R. I.

539*

MAXIMUM DIAMETER	STANDARD DEPTH	MAXIMUM DEPTH
8″	3″	3½″
10″	3″	4″
12″	3½″	4½″
14″	4″	5¼″
16″	4⅛″	5½″
18″	4½″	5¼″
20″	4¾″	5¾″
22″	5¼″	6¼″

5891

MAXIMUM DIAMETER	STANDARD DEPTH	UNDERLIP DIAMETER
10″	3″	9 7/16″
12″	3 5/8″	11 7/16″
14″	4¼″	13 7/16″

52

MAXIMUM DIAMETER	STANDARD DEPTH
8″	3″
10″	4″
12⅛″	4″
14″	5″
16″	6″
18 1/16″	6½″
20″	7″
22 3/16″	7¼″

53

MAXIMUM DIAMETER	STANDARD DEPTH	UNDERLIP DIAMETER
8″	3¼″	7⅛″
10⅛″	3½″	9 13/32″
12 1/16″	4″	11½″
14″	4½″	13½″
16″	6″	15 17/32″
18″	6½″	17 17/32″
20″	7¼″	19⅜″
22⅛″	7½″	21 1/32″

5154

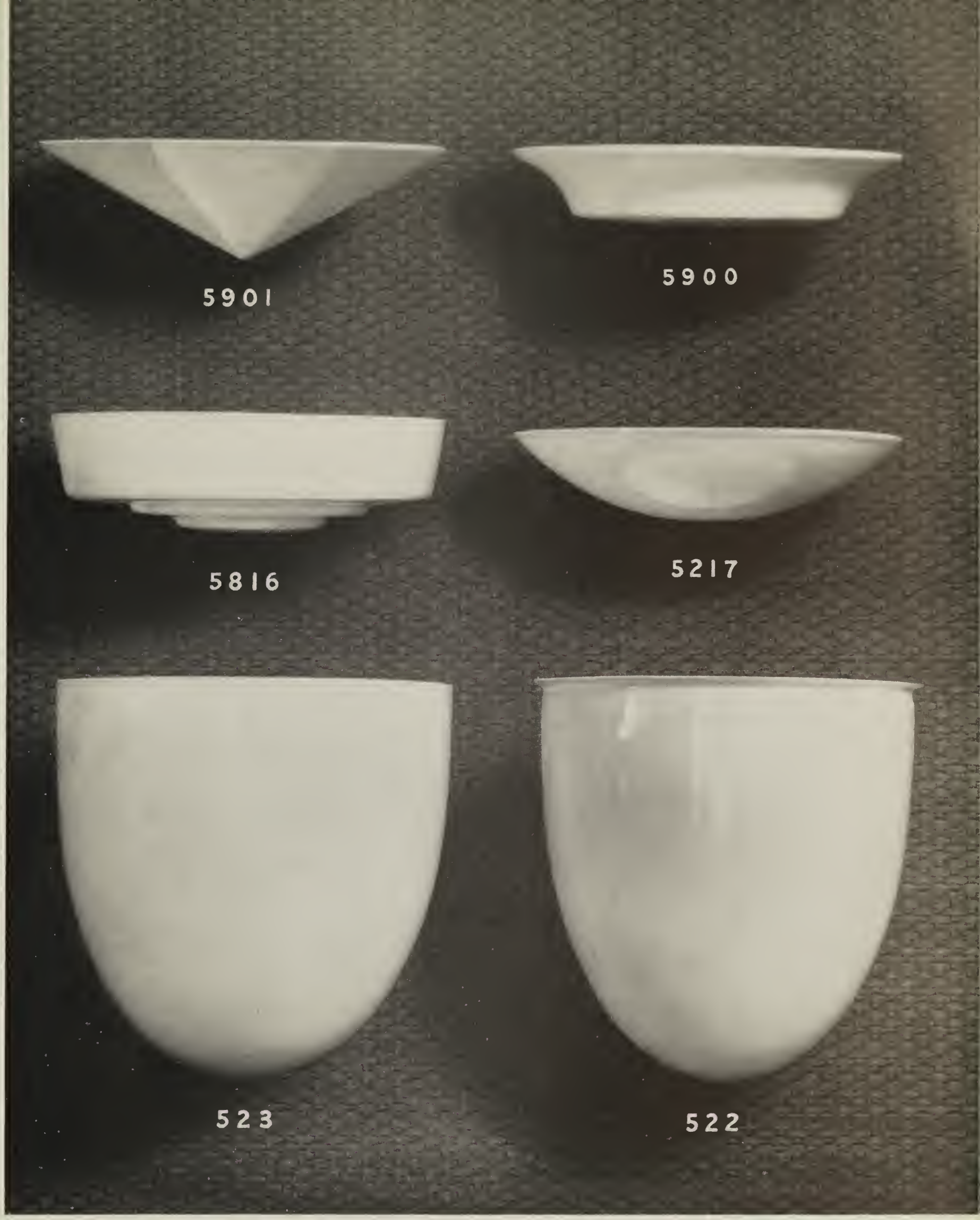
MAXIMUM DIAMETER	STANDARD DEPTH
6″	3″
8″	4″
10″	5″
12″	6″
14″	7″
16″	8″
18″	9″
20″	10″

598

MAXIMUM DIAMETER	STANDARD DEPTH	UNDERLIP DIAMETER
6″	3″	5⅜″
8″	4″	7 13/32″
9″	4½″	8⅜″
10 1/16″	5″	9 3/16″
12″	6″	11⅛″
14″	6½″	13″ 7/32
16″	8″	15⅛″
18⅛″	9″	17″
20¼″	9½″	18⅞″

STANDARD DRILLING FOR BOWLS WITHOUT LIP, ½″ BOTTOM HOLE, UNLESS OTHER DRILLING IS SPECIFIED.

**Also furnished in Velvotan Glass.*



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Standard Bowls

RADIANT OR CRYSTAL R. I.

5901

MAXIMUM DIAMETER	STANDARD DEPTH
9 1/8″	3 1/4″
12″	3 3/8″
14 3/8″	4 1/4″
16″	5 1/2″
18″	6″
19 1/2″	5 9/16″

5900

MAXIMUM DIAMETER	STANDARD DEPTH
14″	2 5/8″
18 1/8″	3 1/2″

5816

MAXIMUM DIAMETER	STANDARD DEPTH
8 1/16″	3 1/2″
10″	3 3/4″
12″	3 15/16″
14″	4″
16″	4 1/2″
18″	5 1/4″
20″	5 1/2″
22″	5 3/4″

5217

MAXIMUM DIAMETER	STANDARD DEPTH	UNDERLIP DIAMETER
6″	1 1/4″	5 1/2″
8″	2 3/8″	7 1/2″
8 7/8″	2 15/16″	8 3/8″
10″	2 7/8″	9 3/8″
12″	3″	11 3/8″
14″	3 1/16″	13 7/16″
16″	3 1/8″	15 11/32″

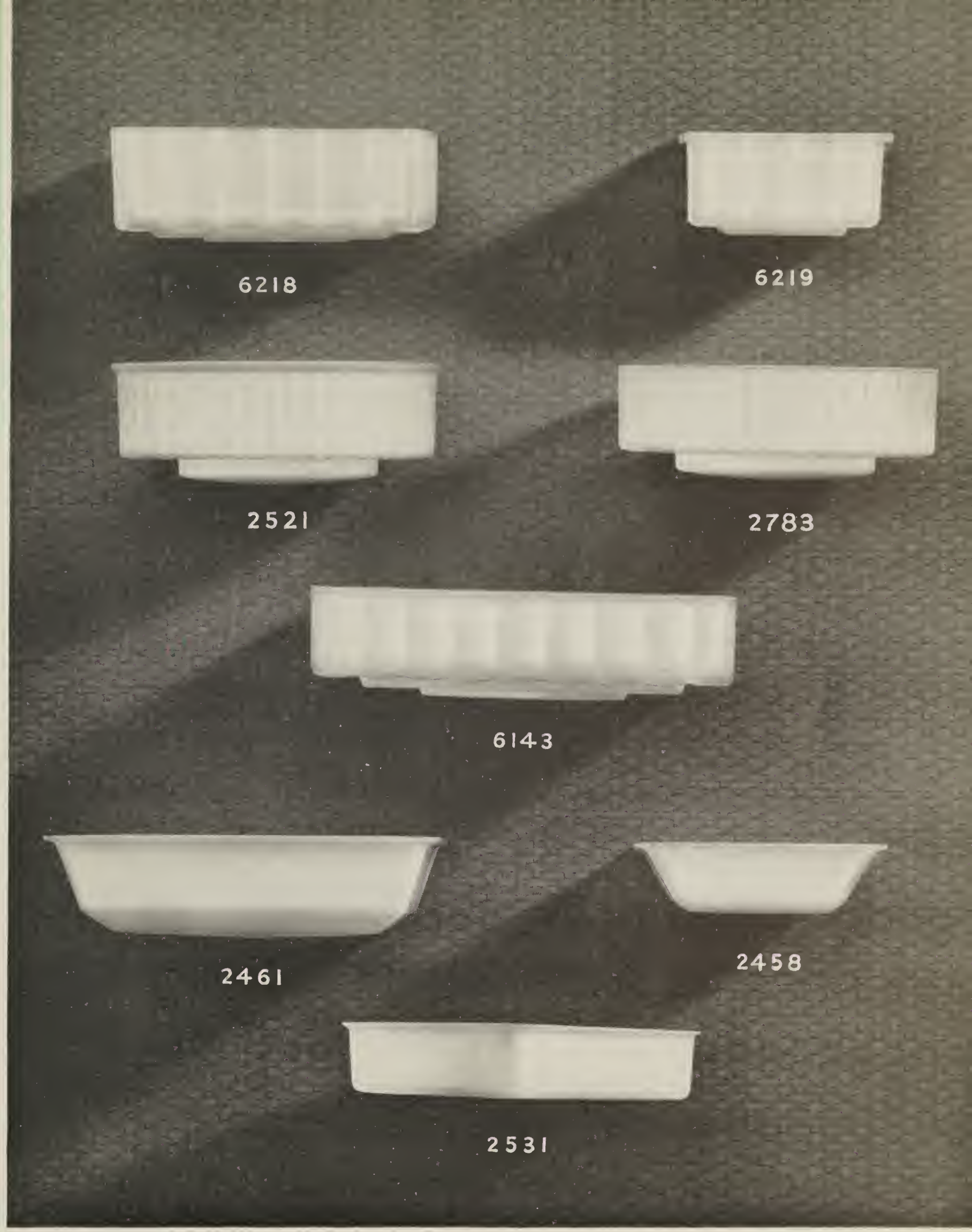
523

MAXIMUM DIAMETER	STANDARD DEPTH
6″	7″
8″	8″
9″	10″
10″	10″
12″	11″
14″	15″
16″	16″
18″	18″

522

MAXIMUM DIAMETER	STANDARD DEPTH	UNDERLIP DIAMETER
6″	7″	5 7/16″
8″	8″	7 3/8″
10″	10″	9 5/16″
12″	11 1/2″	11 5/16″
14″	14 1/2″	13 5/16″

STANDARD DRILLING FOR BOWLS WITHOUT LIP, 1/2″ BOTTOM HOLE, UNLESS OTHER DRILLING IS SPECIFIED.



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Square Bowls Ribbed Bowls

6218—Square—E222*

SIDE LENGTH	STANDARD DEPTH	DIAGONAL MEASUREMENT
11″	4¼″	15⅛″

6219—Square—E222*

SIDE LENGTH	STANDARD DEPTH	DIAGONAL MEASUREMENT
7⁹⁄₁₆″	3¾″	10⅜″

2521—Round—Radiant or E222*

MAXIMUM DIAMETER	STANDARD DEPTH	UNDERLIP DIAMETER
12¼″	4½″	11¾″

2783—Round—Radiant or E222*

MAXIMUM DIAMETER	STANDARD DEPTH
11¾″	4″

6143—Square—E222*

SIDE LENGTH	STANDARD DEPTH	DIAGONAL MEASUREMENT
14½″	3¾″	20³⁄₁₆″

2461—Square—Radiant or E222*

SIDE LENGTH	STANDARD DEPTH	DIAGONAL MEASUREMENT
10¼″	3⅜″	14⁷⁄₁₆″
13⁹⁄₁₆″	3¾″	18½″

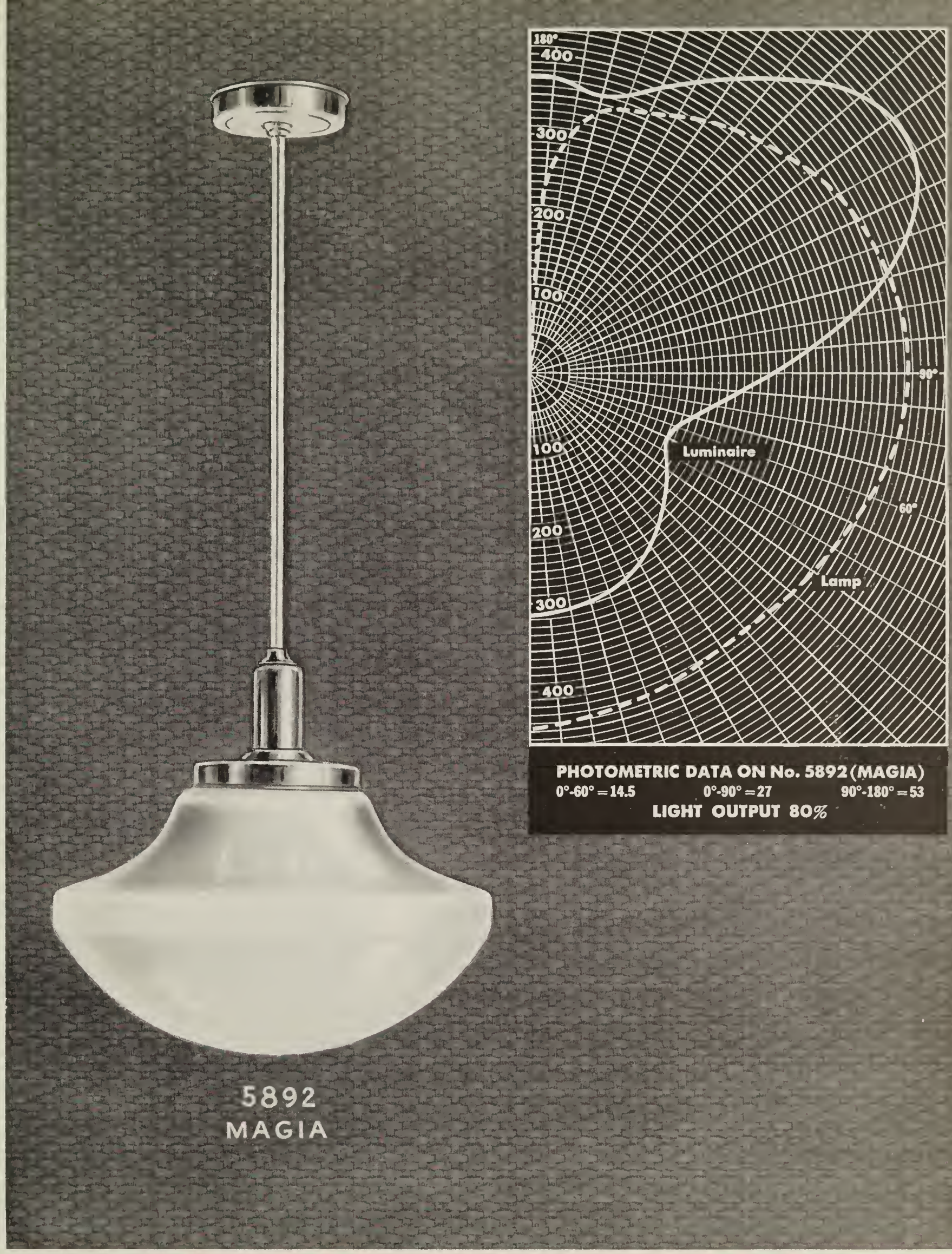
2458—Square—Radiant or E222*

SIDE LENGTH	STANDARD DEPTH	DIAGONAL MEASUREMENT
9″	2½″	12⁹⁄₁₆″

2531—Square—Radiant or E222*

SIDE LENGTH	STANDARD DEPTH	DIAGONAL MEASUREMENT
6¹¹⁄₁₆″	2⅝″	8⅞″
9⅝″	2⅝″	13¹⁄₃₂″

**Crystal Satin Finish* (E222).



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Magia Glass

No. 5892

MAGIA GLASS is an outstanding development in the art of glass making consisting of a dense white bottom bowl of glass, permanently cased over a crystal body, leaving the upper portion clear. The clear top is satin finished inside.

The white bowl reflects a major portion of the light upward and the satin finished upper surface provides proper diffusion to eliminate shadows or lines of contrasting light on the ceiling.

Since the opacity of both the bottom bowl and upper diffusing medium can be accurately controlled, absolute uniformity and an even flood of well diffused light is assured.

The sloping upper surface prevents the accumulation of dust and its efficiency can easily be maintained by occasional wiping with a damp cloth.

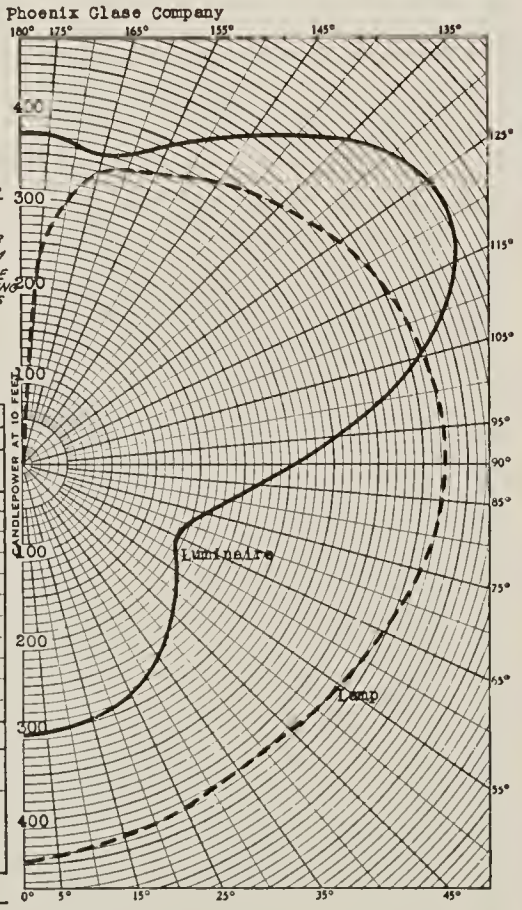
ELECTRICAL TESTING LABORATORIES

NEW YORK, N. Y.

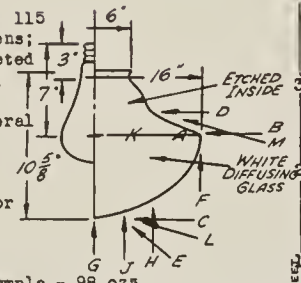
REPORT NO. 139599 ORDER NO. 63399-S PLATE NO. 29132

CANDLEPOWER DISTRIBUTION
NO. 5892 MAGIA GLOBE*

Rendered to The Phoenix Glass Company



Lamp - 300 Watts; 115 Volts; 5490 Lumens; PS35 Inside Frosted Gas-Filled Bulb; C-7A Filament; Mogul Base; General Service.
Surface covering globs opening, reflection factor 0.40.



Weight of Test Sample - 98 ozs.

LUMINAIRE DISTRIBUTION DATA

MEAN VERTICAL

MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° HOR.	371		90° HOR.	309	
175°	374	35	85°	287	292
165°	357	102	75°	212	224
155°	394	182	65°	193	191
145°	446	280	55°	211	189
135°	517	400	45°	238	184
125°	554	497	35°	264	166
115°	536	532	25°	284	132
105°	460	487	15°	300	85
95°	357	390	5°	306	29
			0° NADIR	308	

LIGHT FLUX VALUES

ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT
	LAMP	LUMINAIRE		
0°-80°	1350	785	14.5	
0°-90°	2801	1492	27	80
90°-180°	2688	2905	53	
0°-180°	5489	4397	80	

LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP PER SQ IN.	2.4	2.6	2.3		2.8	1.8	2.9	2.1		2.7	2.5	2.6	

*E.T.L. Identification No. 6604

Note: At the client's request, brightness measurements at the D and M points were omitted.

TESTED BY C.F.S. PLOTTED BY R.W. COMPUTED BY R.W. CHECKED BY [illegible] ISSUED November 8, 1930.

APPROVED BY
William F. Little
ENGINEER IN CHARGE OF PHOTOMETRY

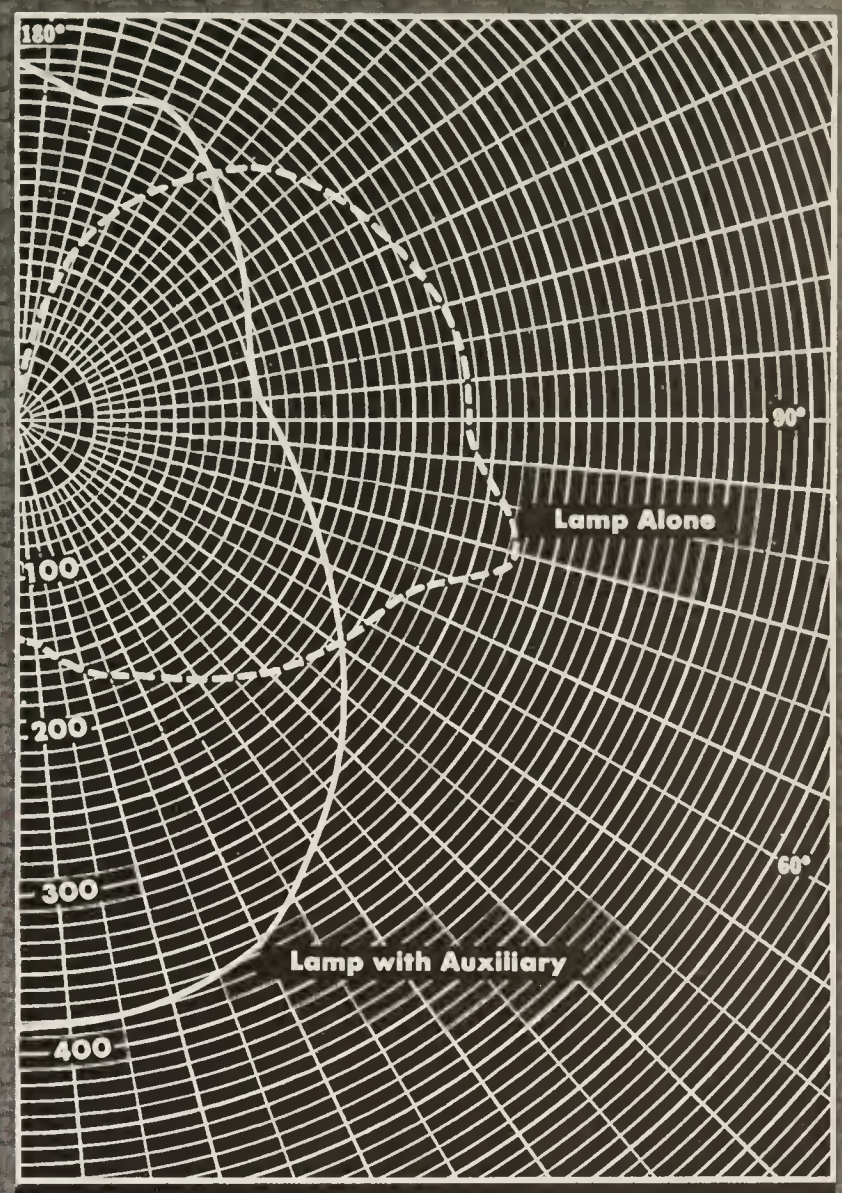
C. E. Horn
IN CHARGE OF TEST

310-B

5892

DIAM.	DEPTH	FITTER
10″	7¼″	4″
12″	8¼″	4″ & 6″
14″	9⅞″	6″
16″	10¼″	6″
18″	11⅛″	6″ & 8″

5892
RADIANT



PHOTOMETRIC DATA ON No. 5892 RADIANT

0°-60° = 30.0 0°-90° = 49.0 90°-180° = 38.0

LIGHT OUTPUT 87.5%

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Radiant Glass

No. 5892

THIS SAME CONTOUR used for Magia Glass can also be obtained in Radiant Glass.

The bowl shaped bottom aids in producing pleasing well distributed illumination in all directions without shadows or annoying glare. This contour is recommended for schools, public buildings, stores, or wherever an efficient and practical lighting installation is required.

The deep lustrous beauty of Radiant 5892 is easily maintained since its sloping upper surface permits rapid and easy cleaning.

ELECTRICAL TESTING LABORATORIES

GENERAL OFFICE AND LABORATORIES

80TH ST. AND EAST END AVE.,

NEW YORK, N. Y.

REPORT No. 41652

Rendered to PHOENIX GLASS COMPANY

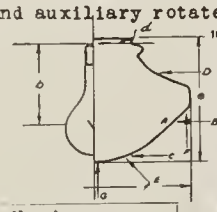
VERTICAL DISTRIBUTION OF LIGHT

RADIANT NO. 5892

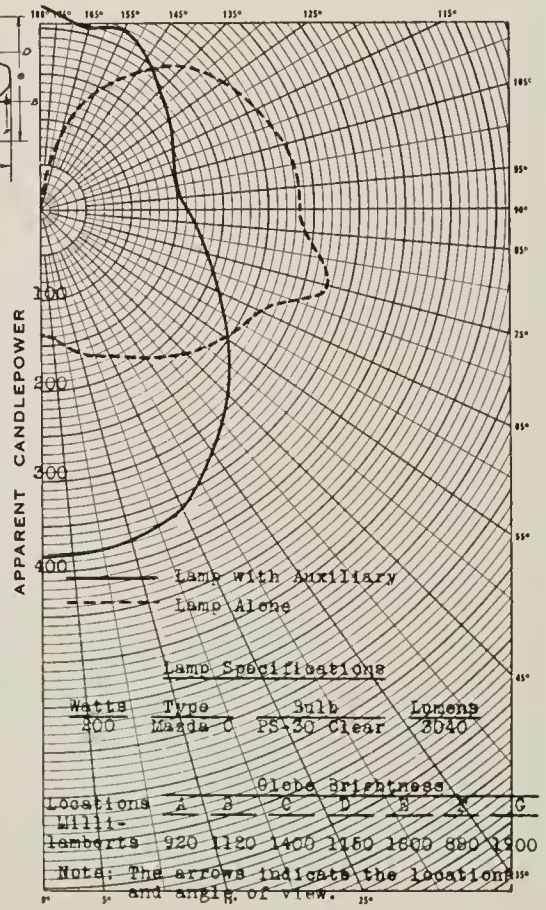
Lamp - 200-watt Mazda C - Filament: Saw-tooth
Holder - None submitted - white blotter covering globe opening
Photometric Distance - 10 feet
Conditions - Lamp and auxiliary rotated

Dimensions of Lamp and Auxiliary

a
b 6 in.
c
d 1/8
e 9
f 14



Mid-zone Angles	Distribution Mean Vertical			
	App. Candlepower		Zonal Lumens	
	Lamp Alone	Lamp with Aux.	Lamp Alone	Lamp with Aux.
180° Zenith		224		
175°	26.1	219	2	21
165°	87	206	25	59
155°	144	218	65	100
145°	183	203	115	128
135°	222	185	172	143
125°	246	172	221	154
115°	260	160	258	159
105°	275	152	291	161
95°	285	155	311	170
90° Horiz.	283	161		
85°	292	170	321	185
75°	323	189	338	200
65°	264	219	266	215
55°	241	250	216	224
45°	222	290	172	224
35°	197	327	124	206
25°	175	363	61	166
15°	162	376	46	106
5°	140	381	13	36
0° Nadir.	139	363		
SPHERICAL VALUES	242	211	3039	2659



Tested by RCS.
Computed by RCS.
Plotted by RCS.
Checked by LRAa

LIGHT OUTPUT
87.5%

Order No. 25508-S duplicate
Plate No. 12669

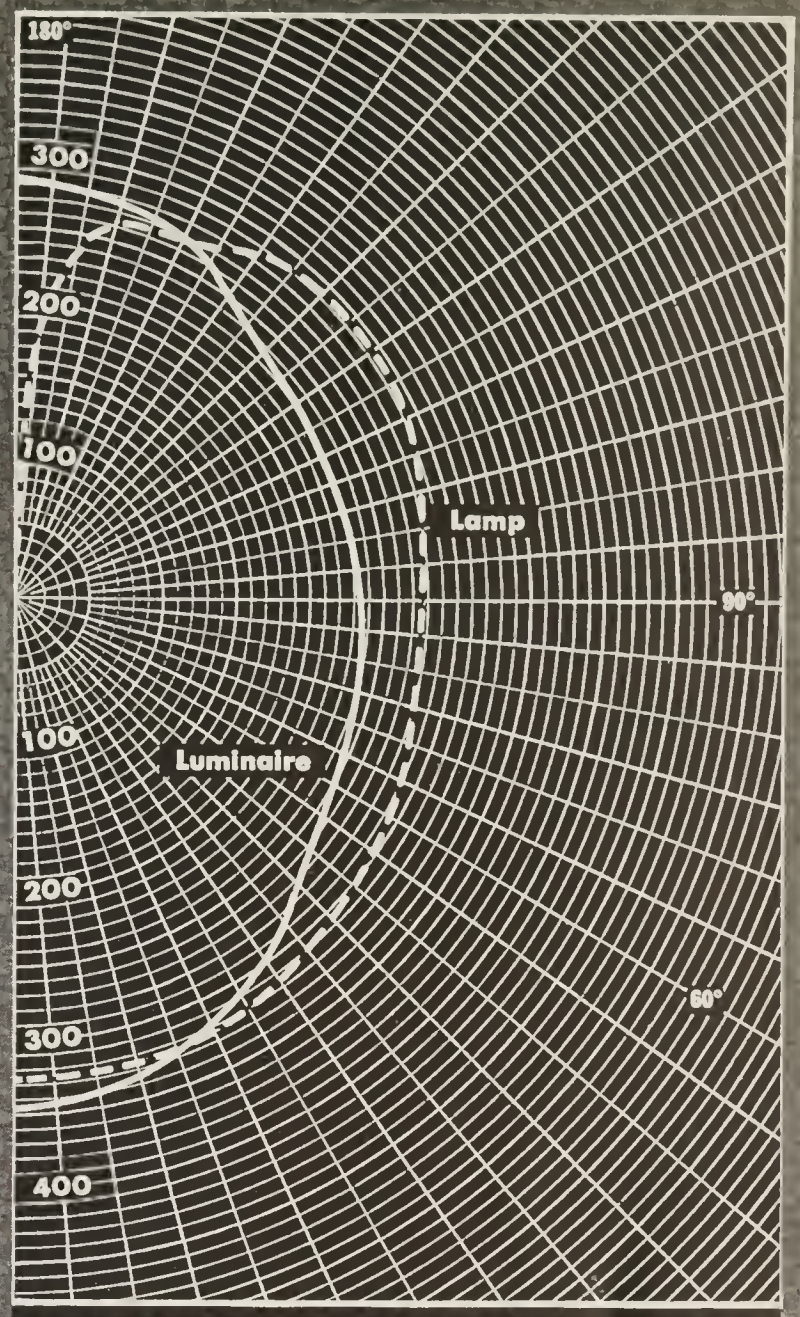
Approved by
Engineer in Charge of Photometry.

A.C. Dick.
In Charge of Test.

5892

DIAM.	DEPTH	FITTER
8″	6″	4″
10″	7¼″	4″
12″	8¼″	4″ & 6″
14″	9⅞″	6″
16″	10¼″	6″
18″	11⅛″	6″ & 8″

2914
RADIANT



PHOTOMETRIC DATA ON No. 2914 RADIANT

0°-60° = 25 0°-90° = 45.5 90°-180° = 41

LIGHT OUTPUT 86.5%

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Radiant Glass

No. 2914

ALTHOUGH GRACEFUL and beautifully proportioned, this globe was scientifically designed to furnish general diffused lighting in accordance with the American Recommended Practice of School Lighting.

The lamp filament is not close to any glass surface thus helping to obtain the prescribed low surface brightness readings.

Again the superiority of Radiant Glass as an efficient diffusing medium has proved helpful by furnishing the unusually high light output of 86.5. This is the average result from a group of globes inspected, selected, and tested by the E.T.L.

2914

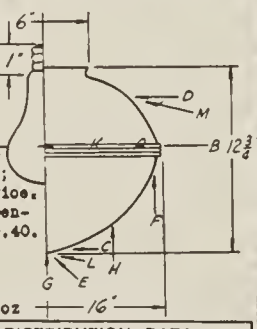
DIAM.	DEPTH	FITTER
9 1/8″	7 5/16″	4″
12″	9 9/16″	6″
14″	11 1/4″	6″
16″	12 7/8″	6″

ELECTRICAL TESTING LABORATORIES
NEW YORK, N. Y.

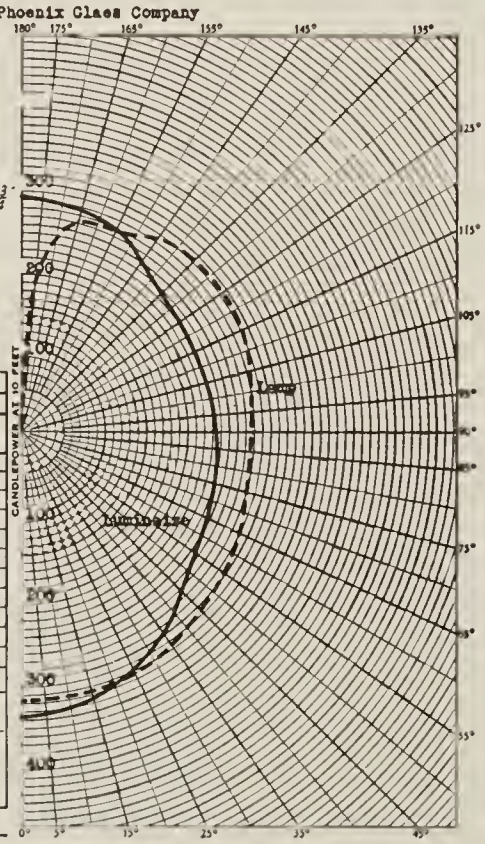
REPORT NO. 146510 ORDER NO. 70667-S PLATE NO. 31598

CANDLEPOWER DISTRIBUTION
NO.2914 - 16-INCH RADIANT GLASS GLOBE*
Tested in Compliance with Illuminating Engineering Society Standard Testing Specifications
Rendered to The Phoenix Glass Company

Values equated from test made with 300-watt lamp. See Report No.146224.
Globes - 58 Submitted; 25 Inspected and Weighed; 6 Tested. Light output range 85.5% to 88%. Average 86.5%.
Lamp - 200 Watts; 115 Volts; 3640 Lumens; PS30 Inside-Frosted Gas-Filled Bulb; C9 Filament; Medium Base; General Service.
Surface covering globe opening; reflection factor 0.40.



White Diffusing Glass
Weight of Test Sample 77 oz



LUMINAIRE DISTRIBUTION DATA
Mean Vertical

MID. ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID. ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° LTR	284		90° HOR.	234	
175°	280	27	85°	235	257
165°	275	78	75°	240	254
155°	270	125	65°	246	244
145°	250	157	55°	255	229
135°	237	183	45°	272	211
125°	231	207	35°	297	186
115°	228	226	25°	318	147
105°	230	243	15°	335	95
95°	232	253	5°	342	33
			0° NADIR	345	

LIGHT FLUX VALUES

ZONE	LUMENS LAMP	LUMENS LUMINAIRE	PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT
0°-60°	975	901	25	
0°-90°	1861	1656	45.5	86.5
90°-180°	1779	1499	41	
0°-180°	3640	3155	86.5	

LUMINAIRE BRIGHTNESS

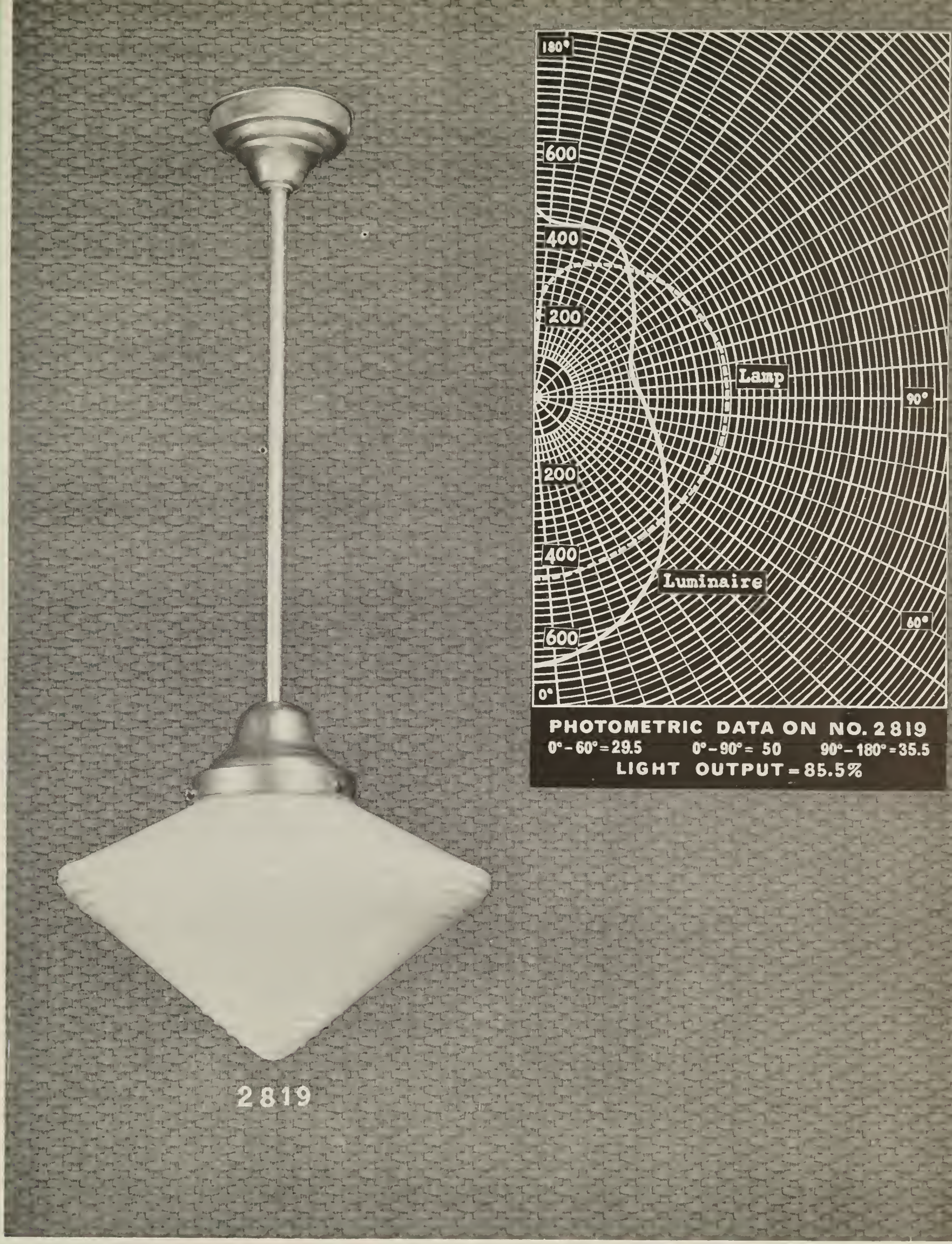
CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP PER SQ. IN	1.3	1.9	1.8	2.0	2.5	1.5	2.6	1.9			1.9	2.2	1.9

TESTED BY VSC PLOTTED BY CK COMPUTED BY CK CHECKED BY bdr *E.T.L. Identification No.8893 ISSUED November 21, 1938.

APPROVED BY William J. Todd ENGINEER IN CHARGE OF PHOTOMETRY
C. E. Horn IN CHARGE OF TEST

869-B



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Radiant Glass

No. 2819

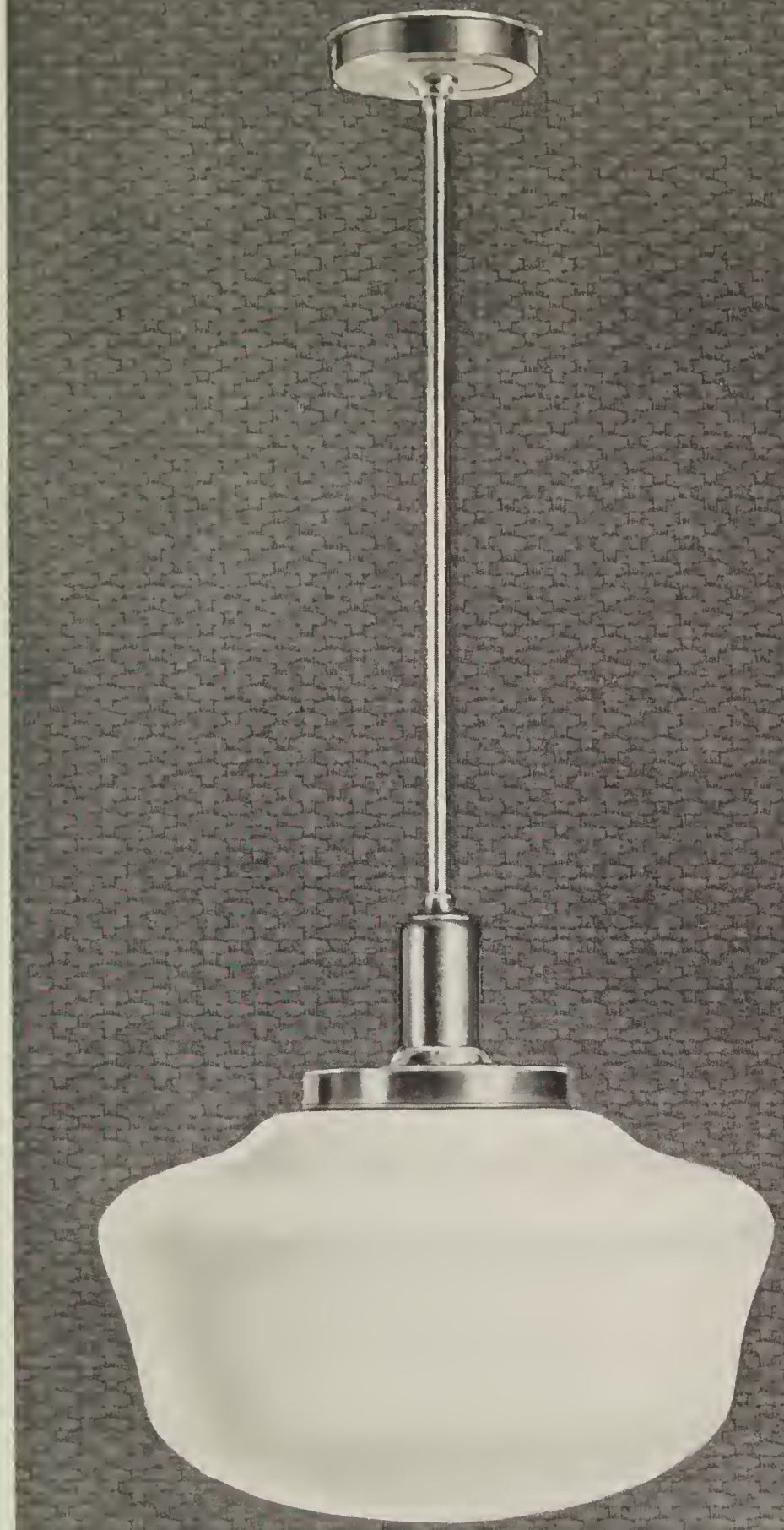
THE DEEP lustrous beauty of Radiant Glass is molded in a new contour No. 2819. It is smartly styled and well proportioned. The smooth flowing lines will complete the modernization of any interior.

Radiant 2819 can be used individually or mounted with chromium or plate glass louvres where a larger or more ornate fixture is required.

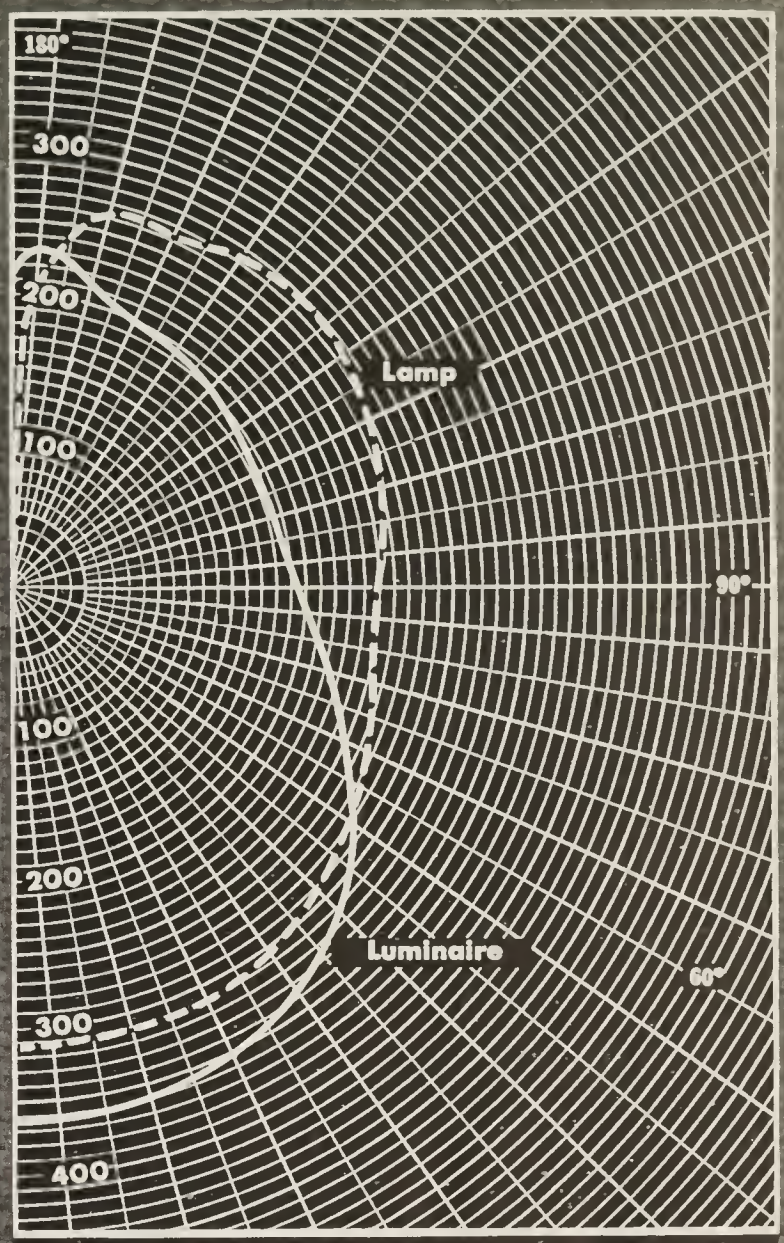
Radiant Glass continues to be the outstanding single layer diffusing glass for all general lighting purposes.

2819

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
9 3/8″	6 7/8″	4″
12 1/8″	7 3/4″	4″ & 6″
14 1/4″	8 11/16″	6″
16 1/8″	10 3/8″	6″
18″	11 7/8″	8″



52167
OPAL



PHOTOMETRIC DATA ON No. 52167 Opal

0°60° = 29.5 0°-90° = 50 90°-180° = 35.5

LIGHT OUTPUT 85.5%

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Opal Glass

No. 52167

FOR ALL TYPES of competitive work we recommend this well proportioned enclosing globe 52167. The contour is pleasing and the glass is an efficient diffusing medium of good quality and low light absorption.

ELECTRICAL TESTING LABORATORIES

NEW YORK, N. Y.

REPORT NO. 139956 ORDER NO. 63870-S PLATE NO. 29211

CANDLEPOWER DISTRIBUTION

NO. 52167 GLOBE*

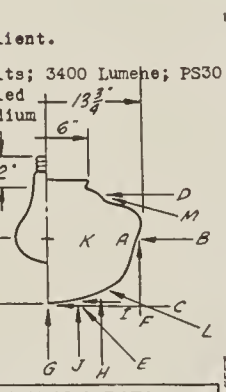
Rendered to The Phoenix Glass Company

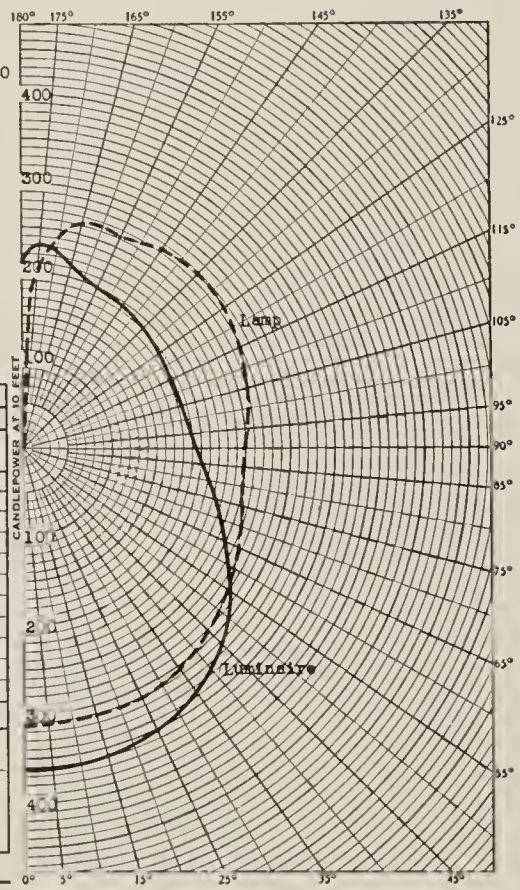
One globe submitted by client.

Lamp - 200 Watts; 115 Volts; 3400 Lumens; PS30 Inside Frosted Gas-Filled Bulb; C-9 Filament; Medium Base; General Service.

Surface covering globe opening, reflection factor 0.70; in accordance with client's request.

White diffusing glass
Weight - 31lbs. 6 oz.





LUMINAIRE DISTRIBUTION DATA

Mean Vertical

MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° HN.	209		90° HOR.	194	
175°	231	21	85°	201	219
165°	213	60	75°	222	235
155°	198	91	65°	248	246
145°	195	122	55°	282	253
135°	191	148	45°	312	242
125°	187	168	35°	336	211
115°	186	185	25°	352	163
105°	185	196	15°	359	102
95°	189	206	5°	363	34
			0° NADIR	363	

LIGHT FLUX VALUES

ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT
	LAMP	LUMINAIRE		
0°-60°	928	1005	29.5	85.5
0°-90°	1730	1705	50	
90°-180°	1670	1197	35.5	
0°-180°	3400	2902	85.5	

LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP PER SQ IN	1.8	2.1	2.3	1.5	3.1	1.6	3.4	2.8	2.1	2.6	2.1	3.0	1.3

TESTED BY D.A.S. PLOTTED BY [illegible] COMPUTED BY [illegible] CHECKED BY [illegible] ISSUED December 16, 1936.

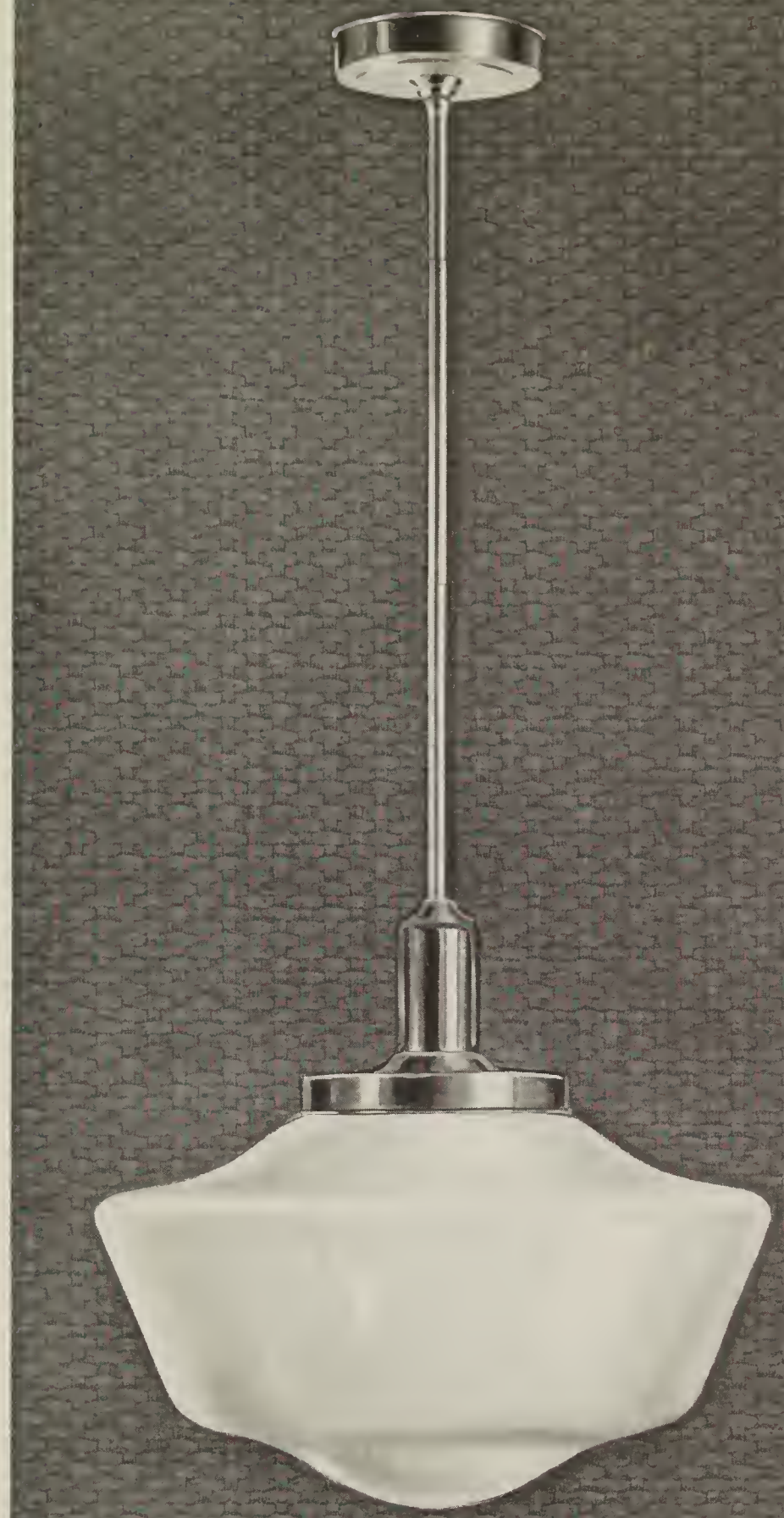
*E.T.L. Identification No. 6729

APPROVED BY William P. Crabb
ENGINEER IN CHARGE OF PHOTOMETRY

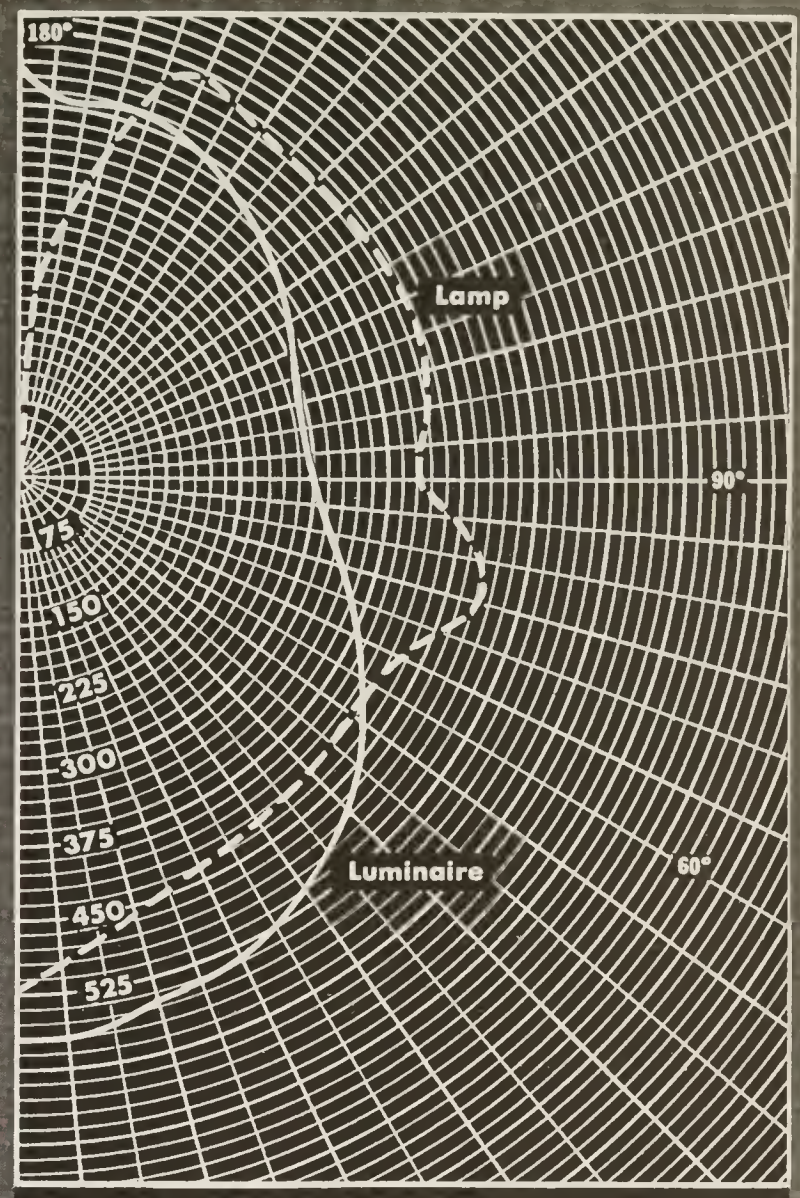
C. E. Horn
IN CHARGE OF TEST

52167

DIAM.	DEPTH	FITTER
8½″	5⅞″	4″
10″	6⅜″	4″
12¼″	8″	4″ & 6″
13⅞″	9″	6″
15⅞″	10 7/16″	6″
18″	11⅝″	6″ & 8″



555
RADIANT



PHOTOMETRIC DATA ON No. 555 Radiant

0°-60° = 29 0°-90° = 49 90°-180° = 38

LIGHT OUTPUT 87%

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Radiant Glass

No. 555

RADIANT 555 continues to be the outstanding enclosing globe of proven merit. It combines the highest efficiency possible without sacrificing proper diffusion. The deep lustrous beauty of Radiant Glass is easily maintained since its fine texture and flowing lines permit rapid and easy cleaning.

Radiant 555 is recommended for school or office lighting or wherever an efficient light source is required.

ELECTRICAL TESTING LABORATORIES
NEW YORK, N. Y.

REPORT No. 47587 ORDER No. 42307-S PLATE No. 22331

CANDLEPOWER DISTRIBUTION
16-INCH NO.555 RADIANT GLOBE*

Rendered to The Phoenix Glass Company

Number Submitted - Six - Light output range 86-88. Average 87%.

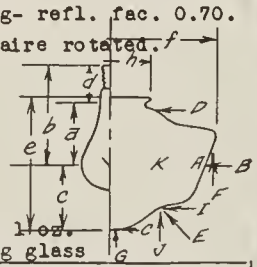
Lamp - 300-Watts; Gasfilled; 5340 Lumens; Bulb PS35 Clear; Mogul base; Filament C7A; General Service; 115 Volts.

Holder - None submitted - Surface covering globe opening- refl. fac. 0.70.

Procedure - Luminaire rotated.

DIMENSIONS OF LUMINAIRE

a	4 in.
b	7
c	5-3/4
d	3
e	10
f	15-7/8
h	6



WEIGHT OF GLASS 3 lb. 1 oz.
White diffusing glass

LUMINAIRE DISTRIBUTION DATA

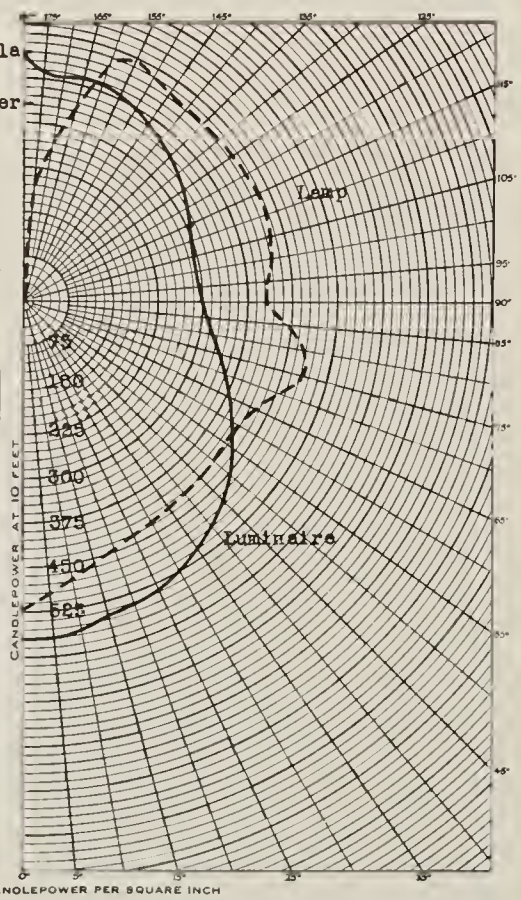
Mean Vertical

MID. ZONE ANGLES	APPARENT CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID. ZONE ANGLES	APPARENT CANDLEPOWER AT 10 FEET	ZONAL LUMENS
180° ZEN.	412		90° HOR.	297	
175°	384	37	85°	312	340
165°	384	109	75°	340	336
155°	379	175	65°	377	374
145°	362	227	55°	432	388
135°	345	267	45°	480	371
125°	326	293	35°	510	317
115°	307	305	25°	540	250
105°	293	314	15°	550	156
95°	295	322	5°	570	54
			0° NADIR	570	

LIGHT FLUX VALUES

ZONE	LUMENS		PERCENT TOTAL LUMENS BARE LAMP	PERCENT LIGHT OUTPUT
	LAMP	LUMINAIRE		
0° - 60°	1346	1536	29	87
0° - 90°	2757	2610	49	
90° - 180°	2610	2045	38	
0° - 180°	5367	4655	87	

LUMINAIRE BRIGHTNESS



MILLILAMBERTS AND CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K
ML.	1600	1700	2000	2000	2400	1150	2400		2100	2100	1500
CP PER SQ IN	3.3	3.5	4.1	4.1	4.9	2.4	4.9		4.3	4.3	3.1

*E.T.L. Identification No.3141.

TESTED BY [signature] PLOTTED BY [signature] COMPUTED BY [signature] CHECKED BY [signature] ISSUED June 24, 1929.

APPROVED BY William L. Lash
ENGINEER IN CHARGE OF PHOTOMETRY

[signature]
IN CHARGE OF TEST

555

DIAM.	DEPTH	FITTER
6″	6″	3¼″
8½″	6½″	4″
9″	6½″	4″
10″	7½″	4″
12″	7½″	4″ & 5″ & 6″
14″	8½″	6″
16″	9⅞″	6″
18″	10½″	6″ or 8″

5807
RADIANT

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Radiant Glass

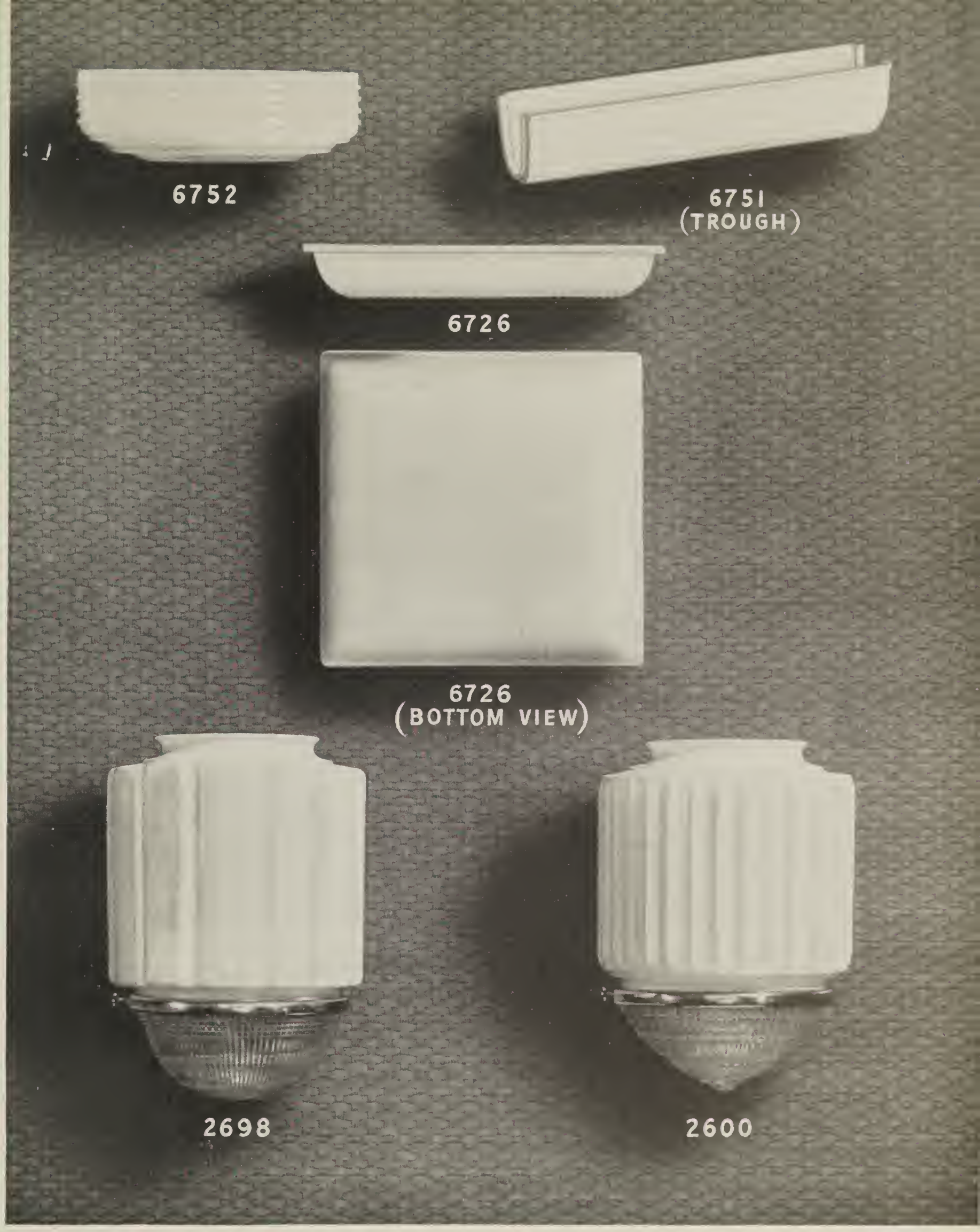
No. 5807

TRIM, smart and obviously modern in character, Radiant 5807 is ideal for certain installations where no other contour would be quite as suitable. With the deep lustrous beauty of Radiant Glass, it is a pleasing variation from the typical enclosing globe. It also furnishes well diffused lighting with a minimum of light absorption.

The smaller sizes are ideal for corridors, modern kitchens or any interior having a low ceiling.

5807

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
8″	4 3/8″	4″
10″	5″	4″
12″	6 1/4″	4″ & 6″
14 3/8″	8 1/4″	6″
16 3/8″	8 7/8″	6″



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Pressed Bowls
Trough Light
Crystal Bottom Units

TROUGH 6751 and Bowl 6726 for architectural lighting are furnished in Marbo Glass or Crystal Satin Finish. (E222)

6751 can be furnished only in the length shown and was especially designed for the lumiline lamp.

6752 (Round)

MAXIMUM DIAMETER	STANDARD DEPTH
10″	3 3/16″

½″ bottom hole

6751

WIDTH	DEPTH	LENGTH
3 1/4″	3″	14 1/8″

6726

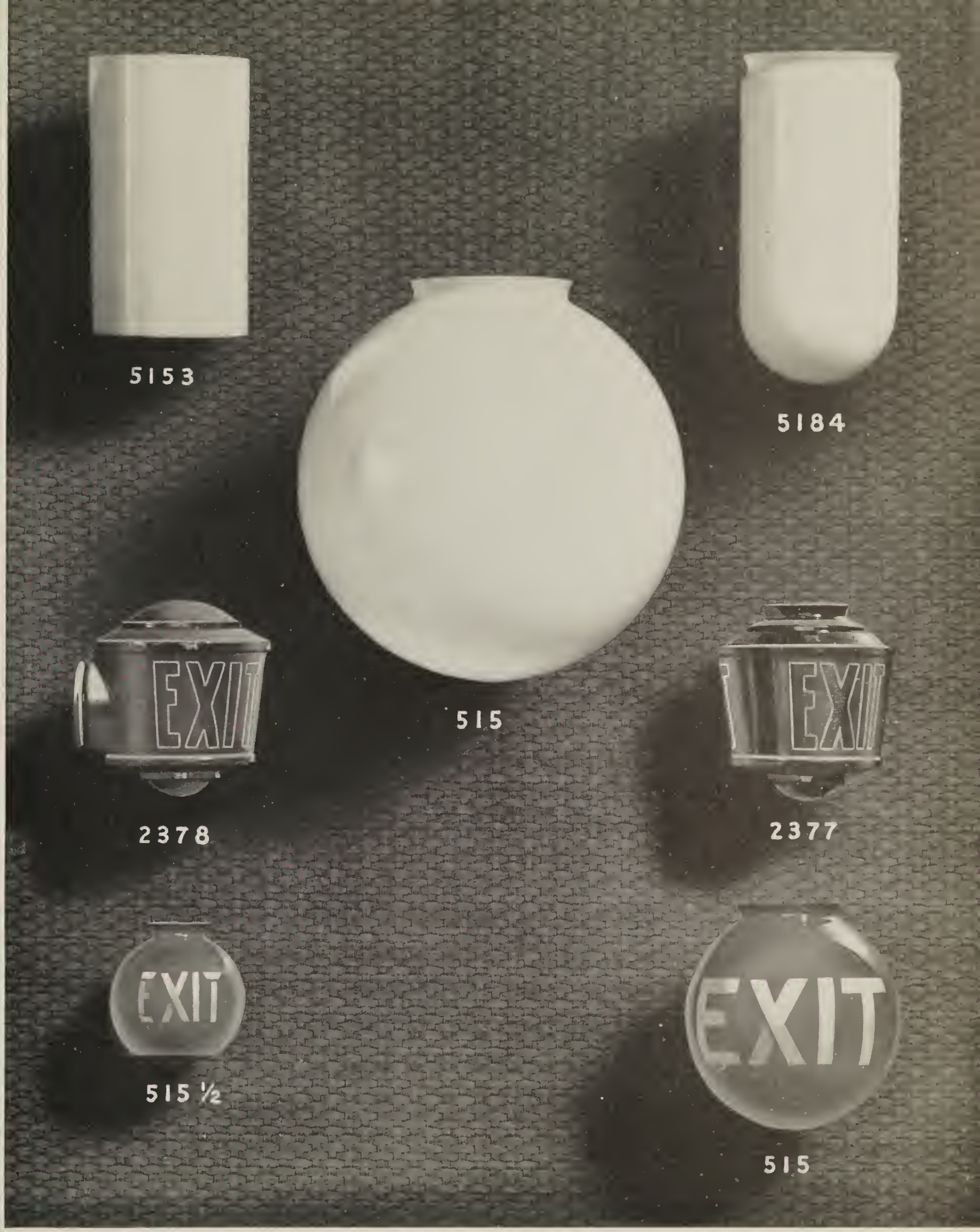
SIDE LENGTH	DEPTH	DIAGONAL MEASUREMENT
8″	1 7/8″	10 13/16″
12″	1 7/8″	16 3/4″

2698

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
9 3/8″	12 7/8″	6″

2600

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
9 3/8″	12 5/8″	6″



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Cylinders
Ball Globes
Ruby Exit Globes

5153 Radiant or C. R. I.

MAXIMUM DIAMETER	MAXIMUM LENGTH
1½″	11″
1¾″	16″
2″	21″
2¼″	15″
2½″	12″
*3″	36″
3½″	12″
*4″	36″
*5″	42″
*6″	36″
7″	29″
*8″	27″
9″	27″
10″	27″
12″	27″
14″	20″

5184 Radiant or C. R. I.

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
3¼″	4⅜″	3¼″
4″	8″	4″
4″	10½″	4″
5″	8″	5″
5″	10″	5″
6″	8″	6″
6″	10½″	6″
6″	12″	6″
8″	12″	8″
8″	14″	8″
8″	16″	8″
9″	14″	9″
10″	20″	10″
12″	16″	12″
14″	17″	14″

515 Radiant or C. R. I.

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
6″	6″	3¼″
7″	7″	3¼″
8″	8″	4″
10″	10″	4″
12″	12″	4″ & 6″
14″	14″	6″
16″	16″	6″ & 8″
18″	18″	8″
20″	20″	8″ & 10″

Aluminum protectors can be spun on 6″ and 8″ fitters.

2378 EXIT

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
7⅞″	7⅛″	3¼″

515½ EXIT

5″	4¾″	2¼″

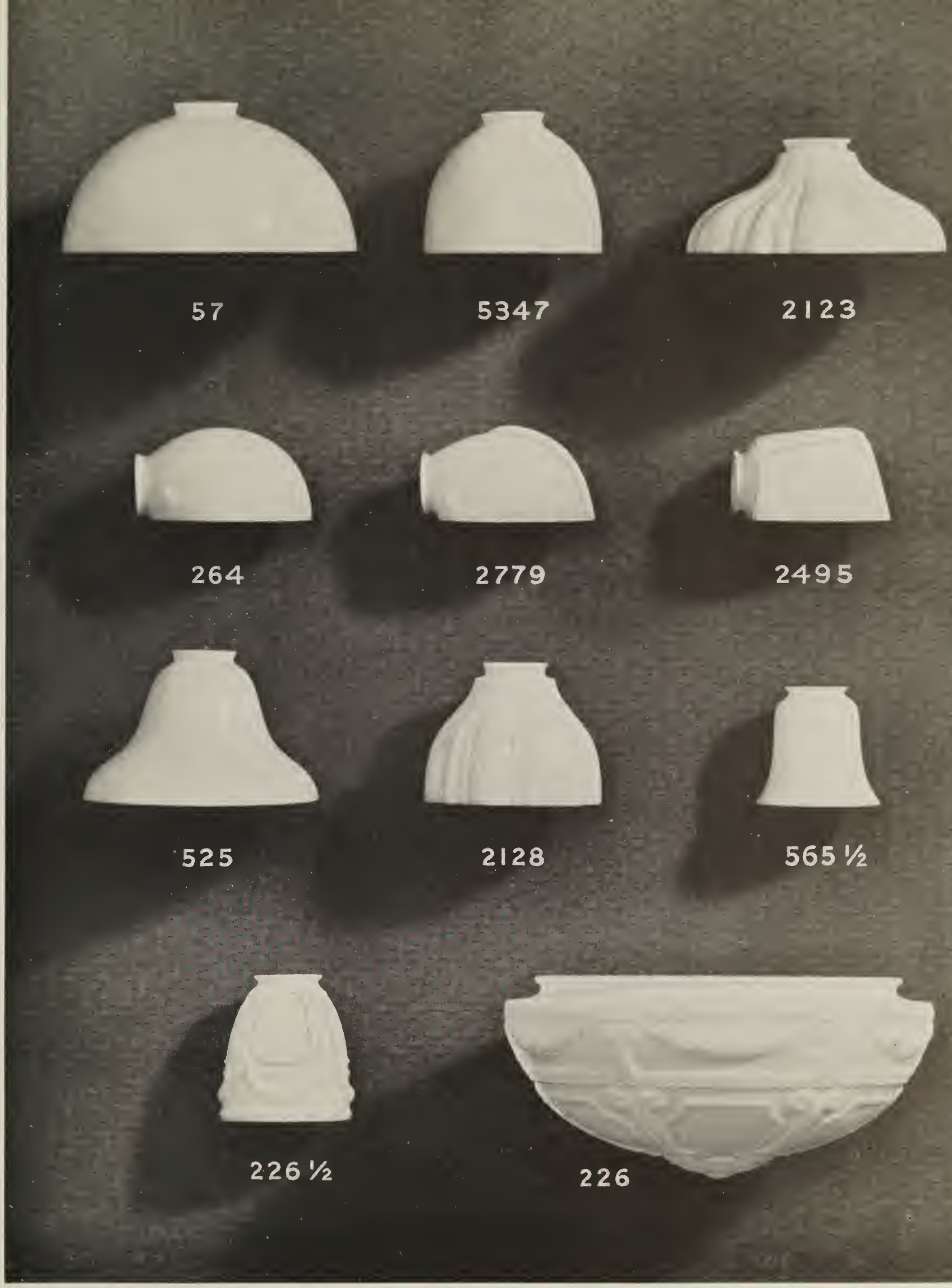
2377 EXIT

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
6⅝″	7⅛″	3¼″

515 EXIT

6″	6″	3¼″

**5153 These sizes are also furnished in Amber Crackled Glass at one-half the maximum length of the cylinder or any shorter length.*



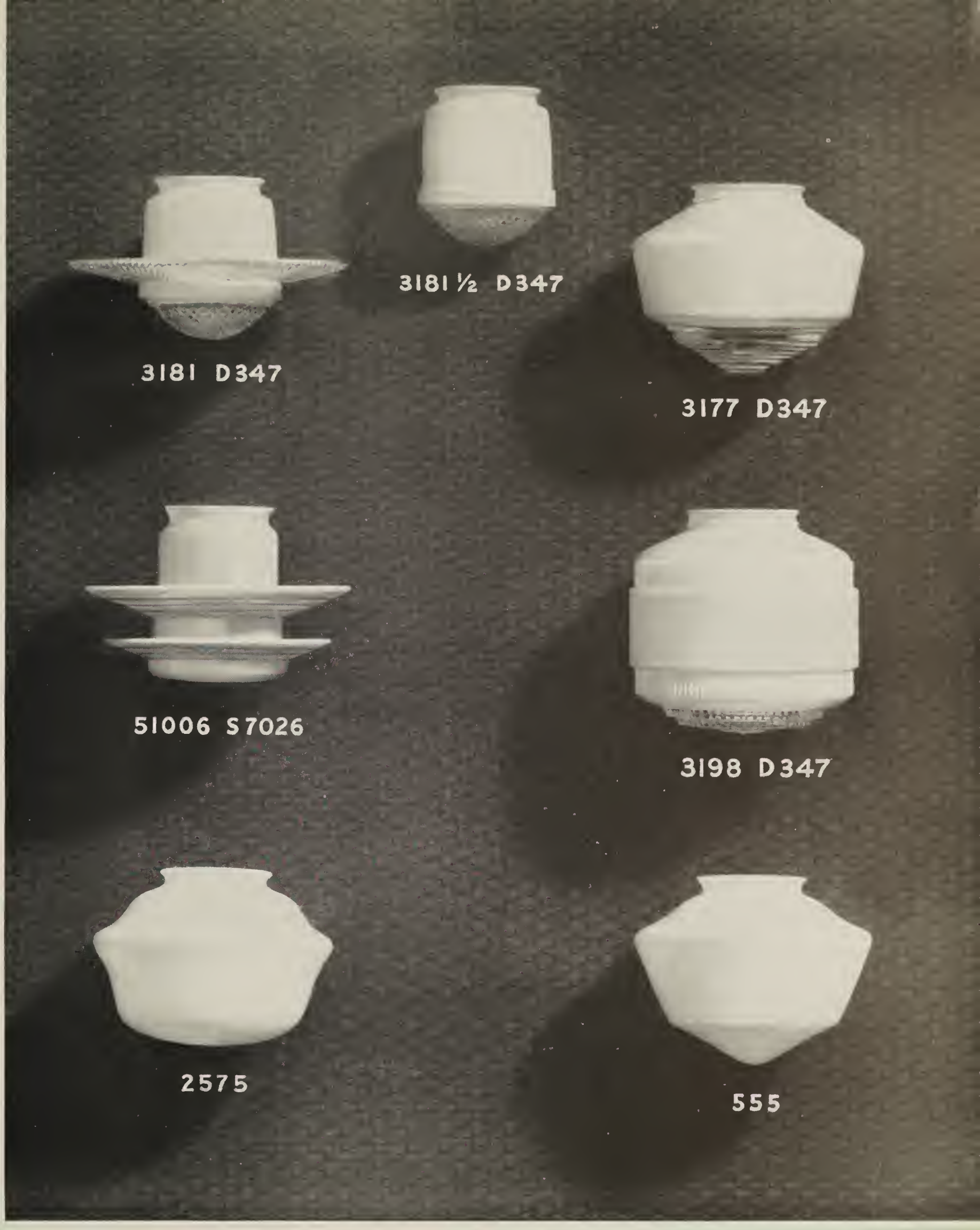
Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Radiant Glass

STANDARD ITEMS

CATALOG NUMBER	MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
57	6″	3¼″	2¼″
57	8″	4″	2¼″ & 3¼″
5347	6 3/16″	4⅞″	2¼″
525	6″	4¼″	2¼″
525	8″	5¼″	2¼″
264	6″	3⅜″	2¼″
2779	5⅞″	4½″	2¼″
2495	5½″	4″	2¼″
2123	7″	3″	2¼″
2123	9″	4″	2¼″
2123	11″	5″	2¼″
2128	6¼″	5″	2¼″
2128	7″	5″	2¼″
2128	8″	5¼″	2¼″
565½	4½″	4¼″	2¼″
226½	4½″	5″	2¼″
226	12″	5½″	10″
226	14″	6⅝″	12″
226	16″	7⅝″	14″



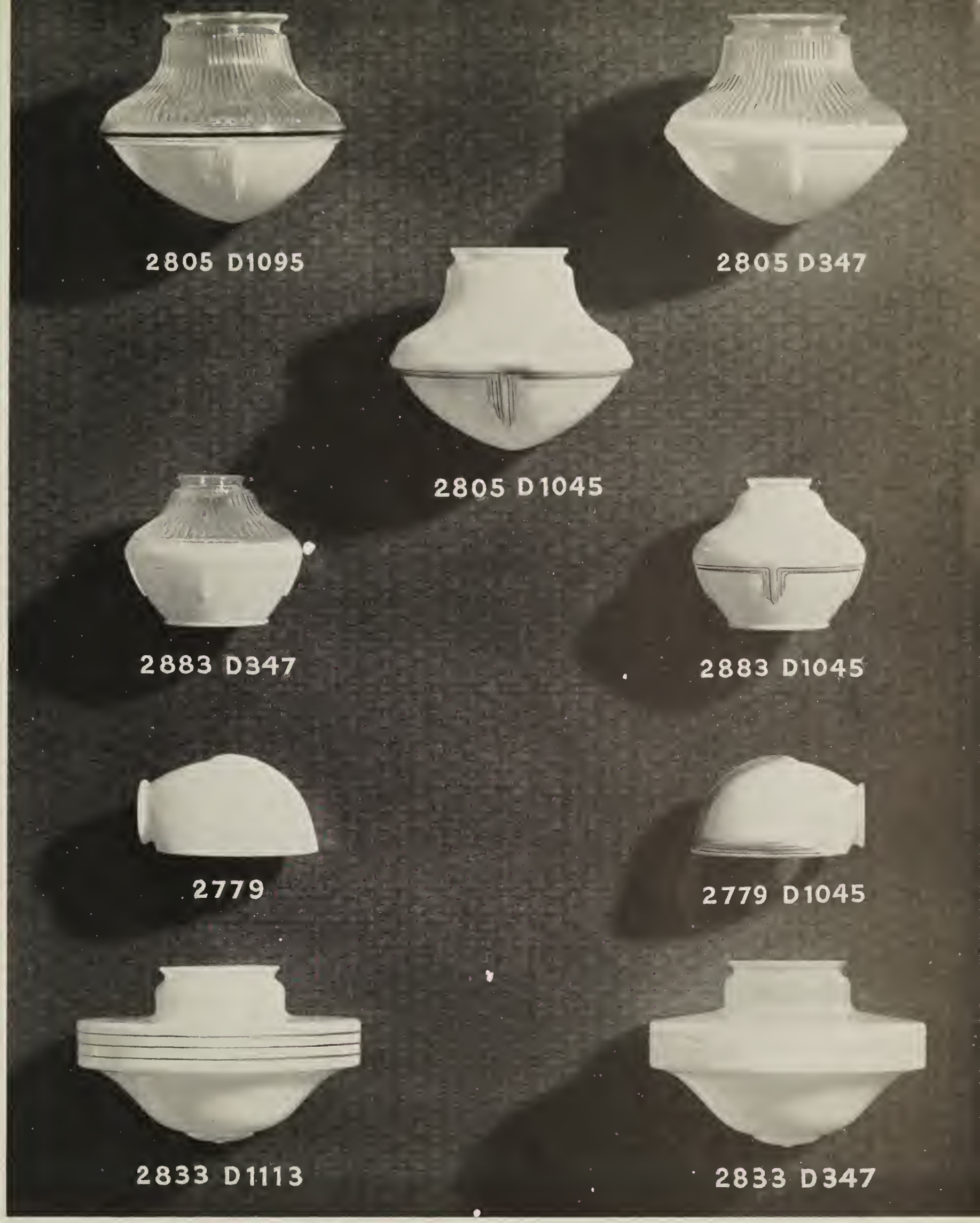
Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Special Purpose Globes

DESIGNED for modern kitchen lighting or for a special lighting requirement. Sparkling crystal bottom globes are in one piece and 3181 D347 is also furnished with a crystal louvre.

CATALOG NUMBER		MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
3181½	**D347**	5⅛″	5¾″	4″
3181	**D347**	10″	5¾″	4″
3177	**D347**	8⅜″	7″	4″
51006	**S7026**	9⅜″	6⅜″	4″
3198	**D347**	8¼″	8⅛″	4″
2575	**Radiant**	8⅜″	6¼″	4″
555	**Radiant**	8½″	6½″	4″



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Bath Room Kitchen Globes

New and unusual glassware for new and unusual kitchens and bath rooms.

Decoration D 347—Crystal Glass with White Enamel highlighted.

Decoration D 1045—Radiant Glass with shaded tones of Red, Green, Tan or Blue.

Decoration D 1095—Crystal Glass with White Enamel and bands of Red, Green, Blue or Black.

Decoration D 1113—Radiant Glass with lustre background and colored lines of Red or Blue.

2805 Radiant
2805 D 347
2805 D 1045
2805 D 1095

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
8⅛″	6¾″	4″

2779 Radiant
2779 D 1045

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
5⅞″	4½″	2¼″

2833 D 347*
2833 D 1113**

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
7″	5½″	4″
9⅜″	6½″	4″

*If 2833 D 347 is desired with clear top, specify number 2833 D 1184.

**Large size only

2883 Radiant
2883 D 347
2883 D 1045
2883 D 1095

MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
5⅞″	5″	2¼″

Number 2819 in the 9″ size shown on page 19 is also available for kitchen lighting. Plain Radiant or with D 1126—bands of color in Red, Green, Blue or Black.

Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Lantern Globes Vapor Proof Globes

ALL NUMBERS are regularly furnished in Plain Crystal Glass or with a satin finish. Number 5884 is also available in Amber Crackled.

CATALOG NUMBER	MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
3174	4¾″	6″	3¼″ & 3¼″
3145	5⅝″	6⅝″	3¼″
5884	4 13/16″	4⅛″	3¼″ & 3¼″
3136	4″	5¾″	2¼″ & 3¼″
6214	3 9/16″	3¼″	3¼″ & 3¼″
6214	4¼″	4¼″	4″ & 4″
374	3 5/16″	5 3/16″	3 5/16″
346	3⅜″	6 13/16″	3 5/16″
3212	4⅛″	5¾″	2¼″ & 3¼″
3213	5⅛″	4½″	3¼″ & 3¼″
***3214**	5″	6⅛″	3¼″

*If No. 3214 is desired with bottom hole, specify No. 3216.

Nos. 3212-3213-3214-3216-3136 are available in Amber Glass.

Nos. 3214 and 3216 can also be furnished with clear panels—specify finish S. B. 20.

Nos. 3212 and 3213 can also be supplied in Crystal or Amber Glass Hi Lighted.

51077

2800
D347

2816

2731

5627

52083

5347

52077

52023

57

Commercial Lighting Glassware

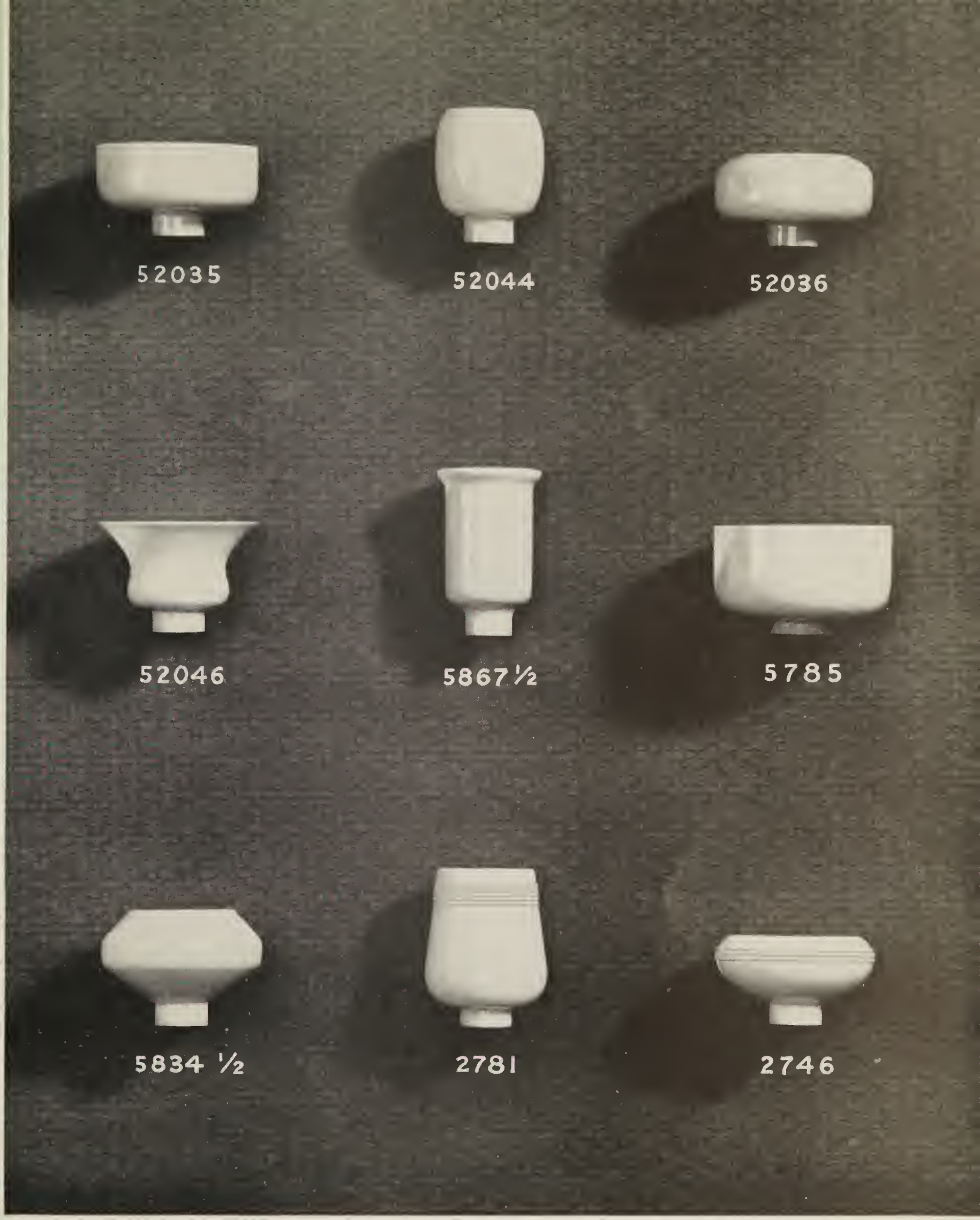
THE PHOENIX GLASS COMPANY

Phoenix Shades for I. E. S. Lamps

RADIANT and TECHNOGLO GLASS

TESTED by Electrical Testing Laboratories according to the Standard established for I.E.S. study and floor lamps.

CATALOG NUMBER	MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
51077	8″	6″	2¼″
2816	6″	5¾″	2¼″
2800	7⅛″	6″	2¼″
2731	9⅜″	6⅜″	2⅝″
5627	10″	6½″	3¼″
52083	10″	6½″	2⅞″
52077	10″	5⅜″	2⅞″
5347	6 3/16″	4⅞″	2¼″
52023	10″	6¼″	2⅞″
57	10″	5½″	2¼″ or 3¼″



Commercial Lighting Glassware

THE PHOENIX GLASS COMPANY

Phoenix Ceria Shades

CERIA is a light cream colored glass providing a soft warm lighting effect without unduly sacrificing light output.

CATALOG NUMBER	MAXIMUM DIAMETER	STANDARD DEPTH	FITTER DIAMETER
52035	5⅜″	3″	1¾″
52035	6⅜″	3¼″	1¾″
52044	3¾″	4½″	1¾″
52036	5⅜″	3″	1¾″
52046	5⅜″	3¾″	1¾″
5785	6″	3¾″	2¼″
2781	4 1/16″	5⅜″	1¾″
5834½	5 5/16″	3⅞″	1¾″
*__5867½__	3⅝″	5¾″	1 9/16″
2746	5⅜″	3″	1¾″
2746	6⅜″	3″	1¾″

*If 5867½ is desired with 1¾″ shank specify No. 52142.

Trade Information

ACTIVE ITEMS

In this Catalog No. 55 we are illustrating our active line. Items appearing in previous catalogs or in the Designer's Handbook are either special or obsolete and prices will be quoted only on application.

KINDS OF GLASS

In this catalog we are listing the kinds of glass and finishes that are standard for each specific item. Any variation from these standards may not be furnished but information can be obtained upon application.

WEIGHTS AND DIMENSIONS

The weights and dimensions given in this catalog are subject to normal tolerances. Measurements showing plus and minus tolerances can be furnished.

STANDARD PACKAGES

Practically all items are packed in specially designed cartons, with proper interior parts. Our standard package contains as few of each article as is economically practical and for this reason we do not solicit orders for less than standard package quantities.

ROUTING

Please show on all orders whether goods should be shipped by freight or express, and the routing preferred. In the absence of instructions, we will use our judgment as to the best routing.

PARTIAL SHIPMENTS

We regularly make partial shipments unless otherwise instructed. This is with the understanding that partial shipments will not be less than 100 pounds weight.

RETURNED GOODS

Material shipped as ordered will not be accepted for return without our permission. If return shipments are authorized they will be subject to a reasonable charge for repacking and handling.

Trade Information

CLAIMS

All packing is done with great care and we cannot be held responsible for loss or damage to material in transit. Claims for loss or damage should be made to the transportation company immediately upon receipt of shipment and customer should require carrier's agent to acknowledge shortage or damage on delivery receipt. We will be glad to lend all possible assistance in settling claims or in tracing shipments.

DEVELOPMENT DEPARTMENT

We have available a complete Development Department as well as engineering service and will welcome the opportunity of cooperating with you on any lighting or glass problem. The necessity for sufficient information accompanying your inquiry is extremely important and will enable us to furnish an intelligent and concise quotation on special glassware. Therefore, please specify:

INFORMATION REQUIRED

QUANTITY INVOLVED (to determine best method of production).

TYPES OF FIXTURE. Indicate the position, type and size of socket and lamp. Method of attaching or holding glassware showing locations where fixture contacts the glass.

SIZE. Give accurate dimensions and tolerances, together with position and size of drilled holes. Specify thickness if important.

TYPE OF GLASS. Specify the kind of glass, and if more than one kind of glass is required, so state. Due to the special nature of various glasses they are not all suitable for every type of production. Describe the intended use so that we can select the most practical glass.

DECORATIONS. Submit sketch, indicating type and location of pattern—also color.

PACKAGE. Type of package and number desired in one container must be specified. If fixtures are to be packed with glass, send sample or sketch of fixture.

Index to Catalog 55

Printed in U.S.A.
Herbick & Held Ptg. Co